

Rec'd PCT/PTO 22 APR 2002

SEQUENCE LISTING

<110> INYCTE PHARMACEUTICALS, INC.

HILLMAN, Jennifer L.

LAL, Preeti

TANG, Y. Tom

CORLEY, Neil C.

GUEGLER, Karl J.

BAUGHN, Mariah R.

PATTERSON, Chandrea

BANDMAN, Olga

AU-YOUNG, Janice

GORGONE, Gina A.

YUE, Henry

AZIMZAI, Yalda

REDDY, Roopa

LU, Dyung Aina M.

SHIH, Leo L.

<120> PHOSPHORYLATION EFFECTORS

<130> PF-0565 PCT

<140> To Be Assigned

<141> Herewith

<150> 09/123,484; unassigned; 09/152,814; unassigned; 09/173,482;
unassigned; 60/106,889; 60/109,093; 60/113,796;<151> 1998-07-28; 1998-07-28; 1998-09-14; 1998-09-14; 1998-10-14;
1998-10-14; 1998-11-03; 1998-11-19; 1998-12-22

<160> 61

<170> PERL Program

<210> 1

<211> 300

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 132240

<400> 1

Met	Glu	Ser	Pro	Leu	Glu	Ser	Gln	Pro	Leu	Asp	Ser	Asp	Arg	Ser
1				5					10					15
Ile	Lys	Glu	Ser	Ser	Phe	Glu	Glu	Ser	Asn	Ile	Glu	Asp	Pro	Leu
				20					25					30
Ile	Val	Thr	Pro	Asp	Cys	Gln	Glu	Lys	Thr	Ser	Pro	Lys	Gly	Val
				35					40					45
Glu	Asn	Pro	Ala	Val	Gln	Glu	Ser	Asn	Gln	Lys	Met	Leu	Gly	Pro
				50					55					60
Pro	Leu	Glu	Val	Leu	Lys	Thr	Leu	Ala	Ser	Lys	Arg	Asn	Ala	Val
				65					70					75

Ala	Phe	Arg	Ser	Phe	Asn	Ser	His	Ile	Asn	Ala	Ser	Asn	Asn	Ser	80	85	90
Glu	Pro	Ser	Arg	Met	Asn	Met	Thr	Ser	Leu	Asp	Ala	Met	Asp	Ile	95	100	105
Ser	Cys	Ala	Tyr	Ser	Gly	Ser	Tyr	Pro	Met	Ala	Ile	Thr	Pro	Thr	110	115	120
Gln	Lys	Arg	Arg	Ser	Cys	Met	Pro	His	Gln	Thr	Pro	Asn	Gln	Ile	125	130	135
Lys	Ser	Gly	Thr	Pro	Tyr	Arg	Thr	Pro	Lys	Ser	Val	Arg	Arg	Gly	140	145	150
Val	Ala	Pro	Val	Asp	Asp	Gly	Arg	Ile	Leu	Gly	Thr	Pro	Asp	Tyr	155	160	165
Leu	Ala	Pro	Glu	Leu	Leu	Leu	Gly	Arg	Ala	His	Gly	Pro	Ala	Val	170	175	180
Asp	Trp	Trp	Ala	Leu	Gly	Val	Cys	Leu	Phe	Glu	Phe	Leu	Thr	Gly	185	190	195
Ile	Pro	Pro	Phe	Asn	Asp	Glu	Thr	Pro	Gln	Gln	Val	Phe	Gln	Asn	200	205	210
Ile	Leu	Lys	Arg	Asp	Ile	Pro	Trp	Pro	Glu	Gly	Glu	Glu	Lys	Leu	215	220	225
Ser	Asp	Asn	Ala	Gln	Ser	Ala	Val	Glu	Ile	Leu	Leu	Thr	Ile	Asp	230	235	240
Asp	Thr	Lys	Arg	Ala	Gly	Met	Lys	Glu	Leu	Lys	Arg	His	Pro	Leu	245	250	255
Phe	Ser	Asp	Val	Asp	Trp	Glu	Asn	Leu	Gln	His	Gln	Thr	Met	Pro	260	265	270
Phe	Ile	Pro	Gln	Pro	Asp	Asp	Glu	Thr	Asp	Thr	Ser	Tyr	Phe	Glu	275	280	285
Ala	Arg	Asn	Thr	Ala	Gln	His	Leu	Thr	Val	Ser	Gly	Phe	Ser	Leu	290	295	300

<210> 2

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2180116

<400> 2

Met	Ala	Ala	Gln	Arg	Leu	Gly	Lys	Arg	Val	Leu	Ser	Lys	Leu	Gln	1	5	10	15
Ser	Pro	Ser	Arg	Ala	Arg	Gly	Pro	Gly	Gly	Ser	Pro	Gly	Gly	Met	20	25	30	
Gln	Lys	Arg	His	Ala	Arg	Val	Thr	Val	Lys	Tyr	Asp	Arg	Arg	Glu	35	40	45	
Leu	Gln	Arg	Arg	Leu	Asp	Val	Glu	Lys	Trp	Ile	Asp	Gly	Arg	Leu	50	55	60	
Glu	Glu	Leu	Tyr	Arg	Gly	Met	Glu	Ala	Asp	Met	Pro	Asp	Glu	Ile	65	70	75	
Asn	Ile	Asp	Glu	Leu	Leu	Glu	Leu	Glu	Ser	Glu	Glu	Glu	Arg	Ser	80	85	90	
Arg	Lys	Ile	Gln	Gly	Leu	Leu	Lys	Ser	Cys	Gly	Lys	Pro	Val	Glu	95	100	105	

Asp	Phe	Ile	Gln	Glu	Leu	Leu	Ala	Lys	Leu	Gln	Gly	Leu	His	Arg
				110					115					120
Gln	Pro	Gly	Leu	Arg	Gln	Pro	Ser	Pro	Ser	His	Asp	Gly	Ser	Leu
				125					130					135
Ser	Pro	Leu	Gln	Asp	Arg	Ala	Arg	Thr	Ala	His	Pro			
				140					145					

<210> 3

<211> 431

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2197671

<400> 3

Met	Ala	His	Ser	Pro	Val	Gln	Ser	Gly	Leu	Pro	Gly	Met	Gln	Asn
1				5					10					15
Leu	Lys	Ala	Asp	Pro	Glu	Glu	Leu	Phe	Thr	Lys	Leu	Glu	Lys	Ile
				20					25					30
Gly	Lys	Gly	Ser	Phe	Gly	Glu	Val	Phe	Lys	Gly	Ile	Asp	Asn	Arg
				35					40					45
Thr	Gln	Lys	Val	Val	Ala	Ile	Lys	Ile	Ile	Asp	Leu	Glu	Glu	Ala
				50					55					60
Glu	Asp	Glu	Ile	Glu	Asp	Ile	Gln	Gln	Glu	Ile	Thr	Val	Leu	Ser
				65					70					75
Gln	Cys	Asp	Ser	Pro	Tyr	Val	Thr	Lys	Tyr	Tyr	Gly	Ser	Tyr	Leu
				80					85					90
Lys	Asp	Thr	Lys	Leu	Trp	Ile	Ile	Met	Glu	Tyr	Leu	Gly	Gly	Gly
				95					100					105
Ser	Ala	Leu	Asp	Leu	Leu	Glu	Pro	Gly	Arg	Leu	Asp	Glu	Thr	Gln
				110					115					120
Ile	Ala	Thr	Ile	Leu	Arg	Glu	Ile	Leu	Lys	Gly	Leu	Asp	Tyr	Leu
				125					130					135
His	Ser	Glu	Lys	Lys	Ile	His	Arg	Asp	Ile	Lys	Ala	Ala	Asn	Val
				140					145					150
Leu	Leu	Ser	Glu	His	Gly	Glu	Val	Lys	Leu	Ala	Asp	Phe	Gly	Val
				155					160					165
Ala	Gly	Gln	Leu	Thr	Asp	Thr	Gln	Ile	Lys	Arg	Asn	Thr	Phe	Val
				170					175					180
Gly	Thr	Pro	Phe	Trp	Met	Ala	Pro	Glu	Val	Ile	Lys	Gln	Ser	Ala
				185					190					195
Tyr	Asp	Ser	Lys	Ala	Asp	Ile	Trp	Ser	Leu	Gly	Ile	Thr	Ala	Ile
				200					205					210
Glu	Leu	Ala	Arg	Gly	Glu	Pro	Pro	His	Ser	Glu	Leu	His	Pro	Met
				215					220					225
Lys	Val	Leu	Phe	Leu	Ile	Pro	Lys	Asn	Asn	Pro	Pro	Thr	Leu	Glu
				230					235					240
Gly	Asn	Tyr	Ser	Lys	Pro	Leu	Lys	Glu	Phe	Val	Glu	Ala	Cys	Leu
				245					250					255
Asn	Lys	Glu	Pro	Ser	Phe	Arg	Pro	Thr	Ala	Lys	Glu	Leu	Leu	Lys
				260					265					270
His	Lys	Phe	Ile	Leu	Arg	Asn	Ala	Lys	Lys	Thr	Ser	Tyr	Leu	Thr
				275					280					285

Glu	Leu	Ile	Asp	Arg	Tyr	Lys	Arg	Trp	Lys	Ala	Glu	Gln	Ser	His	290	295	300
Asp	Asp	Ser	Ser	Ser	Glu	Asp	Ser	Asp	Ala	Glu	Thr	Asp	Gly	Gln	305	310	315
Ala	Ser	Gly	Gly	Ser	Asp	Ser	Gly	Asp	Trp	Ile	Phe	Thr	Ile	Arg	320	325	330
Glu	Lys	Asp	Pro	Lys	Asn	Leu	Glu	Asn	Gly	Ala	Leu	Gln	Pro	Ser	335	340	345
Asp	Leu	Asp	Arg	Asn	Lys	Met	Lys	Asp	Ile	Pro	Lys	Arg	Pro	Phe	350	355	360
Ser	Gln	Cys	Leu	Ser	Thr	Ile	Ile	Ser	Pro	Leu	Phe	Ala	Glu	Leu	365	370	375
Lys	Glu	Lys	Ser	Gln	Ala	Cys	Gly	Gly	Asn	Leu	Gly	Ser	Ile	Glu	380	385	390
Glu	Leu	Arg	Gly	Ala	Ile	Tyr	Leu	Ala	Glu	Glu	Ala	Cys	Pro	Gly	395	400	405
Ile	Ser	Asp	Thr	Met	Val	Ala	Gln	Leu	Val	Gln	Arg	Leu	Gln	Arg	410	415	420
Tyr	Ser	Leu	Ser	Gly	Gly	Gly	Thr	Ser	Ser	His					425	430	

<210> 4

<211> 218

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2594943

<400> 4

Met	Asn	Cys	Arg	Ser	Glu	Val	Leu	Glu	Val	Ser	Val	Glu	Gly	Arg	1	5	10	15
Gln	Val	Glu	Glu	Ala	Met	Leu	Ala	Val	Leu	His	Thr	Val	Leu	Leu	20	25	30	
His	Arg	Ser	Thr	Gly	Lys	Phe	His	Tyr	Lys	Lys	Glu	Gly	Thr	Tyr	35	40	45	
Ser	Ile	Gly	Thr	Val	Gly	Thr	Gln	Asp	Val	Asp	Cys	Asp	Phe	Ile	50	55	60	
Asp	Phe	Thr	Tyr	Val	Arg	Val	Ser	Ser	Glu	Glu	Leu	Asp	Arg	Ala	65	70	75	
Leu	Arg	Lys	Val	Val	Gly	Glu	Phe	Lys	Asp	Ala	Leu	Arg	Asn	Ser	80	85	90	
Gly	Gly	Asp	Gly	Leu	Gly	Gln	Met	Ser	Leu	Glu	Phe	Tyr	Gln	Lys	95	100	105	
Lys	Lys	Ser	Arg	Trp	Pro	Phe	Ser	Asp	Glu	Cys	Ile	Pro	Trp	Glu	110	115	120	
Val	Trp	Thr	Val	Lys	Val	His	Val	Val	Ala	Leu	Ala	Thr	Glu	Gln	125	130	135	
Glu	Arg	Gln	Ile	Cys	Arg	Glu	Lys	Val	Gly	Glu	Lys	Leu	Cys	Glu	140	145	150	
Lys	Ile	Ile	Asn	Ile	Val	Glu	Val	Met	Asn	Arg	His	Glu	Tyr	Leu	155	160	165	
Pro	Lys	Met	Pro	Thr	Gln	Ser	Glu	Val	Asp	Asn	Val	Phe	Asp	Thr	170	175	180	

Gly Leu Arg Asp Val Gln Pro Tyr Leu Tyr Lys Ile Ser Phe Gln
 185 190 195
 Ile Thr Asp Ala Leu Gly Thr Ser Val Thr Thr Thr Met Arg Arg
 200 205 210
 Leu Ile Lys Asp Thr Leu Ala Leu
 215

<210> 5

<211> 474

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1513871

<400> 5

Met Ile Met Asn Lys Met Lys Asn Phe Lys Arg Arg Phe Ser Leu
 1 5 10 15
 Ser Val Pro Arg Thr Glu Thr Ile Glu Glu Ser Leu Ala Glu Phe
 20 25 30
 Thr Glu Gln Phe Asn Gln Leu His Asn Arg Arg Asn Glu Asn Leu
 35 40 45
 Gln Leu Gly Pro Leu Gly Arg Asp Pro Pro Gln Glu Cys Ser Thr
 50 55 60
 Phe Ser Pro Thr Asp Ser Gly Glu Glu Pro Gly Gln Leu Ser Pro
 65 70 75
 Gly Val Gln Phe Gln Arg Arg Gln Asn Gln Arg Arg Phe Ser Met
 80 85 90
 Glu Asp Val Ser Lys Arg Leu Ser Leu Pro Met Asp Ile Arg Leu
 95 100 105
 Pro Gln Glu Phe Leu Gln Lys Leu Gln Met Glu Ser Pro Asp Leu
 110 115 120
 Pro Lys Pro Leu Ser Arg Met Ser Arg Arg Ala Ser Leu Ser Asp
 125 130 135
 Ile Gly Phe Gly Lys Leu Glu Thr Tyr Val Lys Leu Asp Lys Leu
 140 145 150
 Gly Glu Gly Thr Tyr Ala Thr Val Phe Lys Gly Arg Ser Lys Leu
 155 160 165
 Thr Glu Asn Leu Val Ala Leu Lys Glu Ile Arg Leu Glu His Glu
 170 175 180
 Glu Gly Ala Pro Cys Thr Ala Ile Arg Glu Val Ser Leu Leu Lys
 185 190 195
 Asn Leu Lys His Ala Asn Ile Val Thr Leu His Asp Leu Ile His
 200 205 210
 Thr Asp Arg Ser Leu Thr Leu Val Phe Glu Tyr Leu Asp Ser Asp
 215 220 225
 Leu Lys Gln Tyr Leu Asp His Cys Gly Asn Leu Met Ser Met His
 230 235 240
 Asn Val Lys Ile Phe Met Phe Gln Leu Leu Arg Gly Leu Ala Tyr
 245 250 255
 Cys His His Arg Lys Ile Leu His Arg Asp Leu Lys Pro Gln Asn
 260 265 270
 Leu Leu Ile Asn Glu Arg Gly Glu Leu Lys Leu Ala Asp Phe Gly
 275 280 285

Leu	Ala	Arg	Ala	Lys	Ser	Val	Pro	Thr	Lys	Thr	Tyr	Ser	Asn	Glu	
				290					295					300	
Val	Val	Thr	Leu	Trp	Tyr	Arg	Pro	Pro	Asp	Val	Leu	Leu	Gly	Ser	
				305					310					315	
Thr	Glu	Tyr	Ser	Thr	Pro	Ile	Asp	Met	Trp	Gly	Val	Gly	Cys	Ile	
				320					325					330	
His	Tyr	Glu	Met	Ala	Thr	Gly	Arg	Pro	Leu	Phe	Pro	Gly	Ser	Thr	
				335					340					345	
Val	Lys	Glu	Glu	Leu	His	Leu	Ile	Phe	Arg	Leu	Leu	Gly	Thr	Pro	
				350					355					360	
Thr	Glu	Glu	Thr	Trp	Pro	Gly	Val	Thr	Ala	Phe	Ser	Glu	Phe	Arg	
				365					370					375	
Thr	Tyr	Ser	Phe	Pro	Cys	Tyr	Leu	Pro	Gln	Pro	Leu	Ile	Asn	His	
				380					385					390	
Ala	Pro	Arg	Leu	Asp	Thr	Asp	Gly	Ile	His	Leu	Leu	Ser	Ser	Leu	
				395					400					405	
Leu	Leu	Tyr	Glu	Ser	Lys	Ser	Arg	Met	Ser	Ala	Glu	Ala	Ala	Leu	
				410					415					420	
Ser	His	Ser	Tyr	Phe	Arg	Ser	Leu	Gly	Glu	Arg	Val	His	Gln	Leu	
				425					430					435	
Glu	Asp	Thr	Ala	Ser	Ile	Phe	Ser	Leu	Lys	Glu	Ile	Gln	Leu	Gln	
				440					445					450	
Lys	Asp	Pro	Gly	Tyr	Arg	Gly	Leu	Ala	Phe	Gln	Gln	Pro	Gly	Arg	
				455					460					465	
Gly	Lys	Asn	Arg	Arg	Gln	Ser	Ile	Phe							
				470											

<210> 6

<211> 540

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 156108

<400> 6

Met	Asn	Gly	Glu	Ala	Ile	Cys	Ser	Ala	Leu	Pro	Thr	Ile	Pro	Tyr	
1				5					10					15	
His	Lys	Leu	Ala	Asp	Leu	Arg	Tyr	Leu	Ser	Arg	Gly	Ala	Ser	Gly	
				20					25					30	
Thr	Val	Ser	Ser	Ala	Arg	His	Ala	Asp	Trp	Arg	Val	Gln	Val	Ala	
				35					40					45	
Val	Lys	His	Leu	His	Ile	His	Thr	Pro	Leu	Leu	Asp	Ser	Glu	Arg	
				50					55					60	
Lys	Asp	Val	Leu	Arg	Glu	Ala	Glu	Ile	Leu	His	Lys	Ala	Arg	Phe	
				65					70					75	
Ser	Tyr	Ile	Leu	Pro	Ile	Leu	Gly	Ile	Cys	Asn	Glu	Pro	Glu	Phe	
				80					85					90	
Leu	Gly	Ile	Val	Thr	Glu	Tyr	Met	Pro	Asn	Gly	Ser	Leu	Asn	Glu	
				95					100					105	
Leu	Leu	His	Arg	Lys	Thr	Glu	Tyr	Pro	Asp	Val	Ala	Trp	Pro	Leu	
				110					115					120	
Arg	Phe	Arg	Ile	Leu	His	Glu	Ile	Ala	Leu	Gly	Val	Asn	Tyr	Leu	

	125		130		135
His Asn Met Thr	Pro Pro Leu Leu His	His Asp Leu Lys Thr	Gln		
	140		145		150
Asn Ile Leu Leu	Asp Asn Glu Phe His	Val Lys Ile Ala Asp	Phe		
	155		160		165
Gly Leu Ser Lys	Trp Arg Met Met Ser	Leu Ser Gln Ser Arg	Ser		
	170		175		180
Ser Lys Ser Ala	Pro Glu Gly Gly Thr	Ile Ile Tyr Met Pro	Pro		
	185		190		195
Glu Asn Tyr Glu	Pro Gly Gln Lys Ser	Arg Ala Ser Ile Lys	His		
	200		205		210
Asp Ile Tyr Ser	Tyr Ala Val Ile Thr	Trp Glu Val Leu Ser	Arg		
	215		220		225
Lys Gln Pro Phe	Glu Asp Val Thr Asn	Pro Leu Gln Ile Met	Tyr		
	230		235		240
Ser Val Ser Gln	Gly His Arg Pro Val	Ile Asn Glu Glu Ser	Leu		
	245		250		255
Pro Tyr Asp Ile	Pro His Arg Ala Arg	Met Ile Ser Leu Ile	Glu		
	260		265		270
Ser Gly Trp Ala	Gln Asn Pro Asp Glu	Arg Pro Ser Phe Leu	Lys		
	275		280		285
Cys Leu Ile Glu	Leu Glu Pro Val Leu	Arg Thr Phe Glu Glu	Ile		
	290		295		300
Thr Phe Leu Glu	Ala Val Ile Gln Leu	Lys Lys Thr Lys Leu	Gln		
	305		310		315
Ser Val Ser Ser	Ala Ile His Leu Cys	Asp Lys Lys Lys Met	Glu		
	320		325		330
Leu Ser Leu Asn	Ile Pro Val Asn His	Gly Pro Gln Glu Glu	Ser		
	335		340		345
Cys Gly Ser Ser	Gln Leu His Glu Asn	Ser Gly Ser Pro Glu	Thr		
	350		355		360
Ser Arg Ser Leu	Pro Ala Pro Gln Asp	Asn Asp Phe Leu Ser	Arg		
	365		370		375
Lys Ala Gln Asp	Cys Tyr Phe Met Lys	Leu His His Cys Pro	Gly		
	380		385		390
Asn His Ser Trp	Asp Ser Thr Ile Ser	Gly Ser Gln Arg Ala	Ala		
	395		400		405
Phe Cys Asp His	Lys Thr Thr Pro Cys	Ser Ser Ala Ile Ile	Asn		
	410		415		420
Pro Leu Ser Thr	Ala Gly Asn Ser Glu	Arg Leu Gln Pro Gly	Ile		
	425		430		435
Ala Gln Gln Trp	Ile Gln Ser Lys Arg	Glu Asp Ile Val Asn	Gln		
	440		445		450
Met Thr Glu Ala	Cys Leu Asn Gln Ser	Leu Asp Ala Leu Leu	Ser		
	455		460		465
Arg Asp Leu Ile	Met Lys Glu Asp Tyr	Glu Leu Val Ser Thr	Lys		
	470		475		480
Pro Thr Arg Thr	Ser Lys Val Arg Gln	Leu Leu Asp Thr Thr	Asp		
	485		490		495
Ile Gln Gly Glu	Glu Phe Ala Lys Val	Ile Val Gln Lys Leu	Lys		
	500		505		510
Asp Asn Lys Gln	Met Gly Leu Gln Pro	Tyr Pro Glu Ile Leu	Val		
	515		520		525
Val Ser Arg Ser	Pro Ser Leu Asn Leu	Leu Gln Asn Lys Ser	Met		
	530		535		540

<210> 7

<211> 454

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2983243

<400> 7

Met	Tyr	Asn	Thr	Val	Trp	Asn	Met	Glu	Asp	Leu	Asp	Leu	Glu	Tyr
1				5					10					15
Ala	Lys	Thr	Asp	Ile	Asn	Cys	Gly	Thr	Asp	Leu	Met	Phe	Tyr	Ile
				20					25					30
Glu	Met	Asp	Pro	Pro	Ala	Leu	Pro	Pro	Lys	Pro	Pro	Lys	Pro	Thr
				35					40					45
Thr	Val	Ala	Asn	Asn	Gly	Met	Asn	Asn	Met	Ser	Leu	Gln	Asp	
				50					55					60
Ala	Glu	Trp	Tyr	Trp	Gly	Asp	Ile	Ser	Arg	Glu	Glu	Val	Asn	Glu
				65					70					75
Lys	Leu	Arg	Asp	Thr	Ala	Asp	Gly	Thr	Phe	Leu	Val	Arg	Asp	Ala
				80					85					90
Ser	Thr	Lys	Met	His	Gly	Asp	Tyr	Thr	Leu	Thr	Leu	Arg	Lys	Gly
				95					100					105
Gly	Asn	Asn	Lys	Leu	Ile	Lys	Ile	Phe	His	Arg	Asp	Gly	Lys	Tyr
				110					115					120
Gly	Phe	Ser	Asp	Pro	Leu	Thr	Phe	Ser	Ser	Val	Val	Glu	Leu	Ile
				125					130					135
Asn	His	Tyr	Arg	Asn	Glu	Ser	Leu	Ala	Gln	Tyr	Asn	Pro	Lys	Leu
				140					145					150
Asp	Val	Lys	Leu	Leu	Tyr	Pro	Val	Ser	Lys	Tyr	Gln	Gln	Asp	Gln
				155					160					165
Val	Val	Lys	Glu	Asp	Asn	Ile	Glu	Ala	Val	Gly	Lys	Lys	Leu	His
				170					175					180
Glu	Tyr	Asn	Thr	Gln	Phe	Gln	Glu	Lys	Ser	Arg	Glu	Tyr	Asp	Arg
				185					190					195
Leu	Tyr	Glu	Glu	Tyr	Thr	Arg	Thr	Ser	Gln	Glu	Ile	Gln	Met	Lys
				200					205					210
Arg	Thr	Ala	Ile	Glu	Ala	Phe	Asn	Glu	Thr	Ile	Lys	Ile	Phe	Glu
				215					220					225
Glu	Gln	Cys	Gln	Thr	Gln	Glu	Arg	Tyr	Ser	Lys	Glu	Tyr	Ile	Glu
				230					235					240
Lys	Phe	Lys	Arg	Glu	Gly	Asn	Glu	Lys	Glu	Ile	Gln	Arg	Ile	Met
				245					250					255
His	Asn	Tyr	Asp	Lys	Leu	Lys	Ser	Arg	Ile	Ser	Glu	Ile	Ile	Asp
				260					265					270
Ser	Arg	Arg	Arg	Leu	Glu	Glu	Asp	Leu	Lys	Lys	Gln	Ala	Ala	Glu
				275					280					285
Tyr	Arg	Glu	Ile	Asp	Lys	Arg	Met	Asn	Ser	Ile	Lys	Pro	Asp	Leu
				290					295					300
Ile	Gln	Leu	Arg	Lys	Thr	Arg	Asp	Gln	Tyr	Leu	Met	Trp	Leu	Thr
				305					310					315
Gln	Lys	Gly	Val	Arg	Gln	Lys	Lys	Leu	Asn	Glu	Trp	Leu	Gly	Asn
				320					325					330
Glu	Asn	Thr	Glu	Asp	Gln	Tyr	Ser	Leu	Val	Glu	Asp	Asp	Glu	Asp
				335					340					345

Leu	Pro	His	His	Asp	Glu	Lys	Thr	Trp	Asn	Val	Gly	Ser	Ser	Asn
				350					355					360
Arg	Asn	Lys	Ala	Glu	Asn	Leu	Leu	Arg	Gly	Lys	Arg	Asp	Gly	Thr
				365					370					375
Phe	Leu	Val	Arg	Glu	Ser	Ser	Lys	Gln	Gly	Cys	Tyr	Ala	Cys	Ser
				380					385					390
Val	Val	Val	Asp	Gly	Glu	Val	Lys	His	Cys	Val	Ile	Asn	Lys	Thr
				395					400					405
Ala	Thr	Gly	Tyr	Gly	Phe	Ala	Glu	Pro	Tyr	Asn	Leu	Tyr	Ser	Ser
				410					415					420
Leu	Lys	Glu	Leu	Val	Leu	His	Tyr	Gln	His	Thr	Ser	Leu	Val	Gln
				425					430					435
His	Asn	Asp	Ser	Leu	Asn	Val	Thr	Leu	Asn	Tyr	Pro	Val	Tyr	Ala
				440					445					450
Gln	Gln	Arg	Arg											

<210> 8

<211> 502

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 3173355

<400> 8

Met	Phe	Gly	Thr	Leu	Leu	Leu	Tyr	Cys	Phe	Phe	Leu	Ala	Thr	Val
1				5					10					15
Pro	Ala	Leu	Ala	Glu	Thr	Gly	Gly	Glu	Arg	Gln	Leu	Ser	Pro	Glu
				20					25					30
Lys	Ser	Glu	Ile	Trp	Gly	Pro	Gly	Leu	Lys	Ala	Asp	Val	Val	Leu
				35					40					45
Pro	Ala	Arg	Tyr	Phe	Tyr	Ile	Gln	Ala	Val	Asp	Thr	Ser	Gly	Asn
				50					55					60
Lys	Phe	Thr	Ser	Ser	Pro	Gly	Glu	Lys	Val	Phe	Gln	Val	Lys	Val
				65					70					75
Ser	Ala	Pro	Glu	Glu	Gln	Phe	Thr	Arg	Val	Gly	Val	Gln	Val	Leu
				80					85					90
Asp	Arg	Lys	Asp	Gly	Ser	Phe	Ile	Val	Arg	Tyr	Arg	Met	Tyr	Ala
				95					100					105
Ser	Tyr	Lys	Asn	Leu	Lys	Val	Glu	Ile	Lys	Phe	Gln	Gly	Gln	His
				110					115					120
Val	Ala	Lys	Ser	Pro	Tyr	Ile	Leu	Lys	Gly	Pro	Val	Tyr	His	Glu
				125					130					135
Asn	Cys	Asp	Cys	Pro	Leu	Gln	Asp	Ser	Ala	Ala	Trp	Leu	Arg	Glu
				140					145					150
Met	Asn	Cys	Pro	Glu	Thr	Ile	Ala	Gln	Ile	Gln	Arg	Asp	Leu	Ala
				155					160					165
His	Phe	Pro	Ala	Val	Asp	Pro	Glu	Lys	Ile	Ala	Val	Glu	Ile	Pro
				170					175					180
Lys	Arg	Phe	Gly	Gln	Arg	Gln	Ser	Leu	Cys	His	Tyr	Thr	Leu	Lys
				185					190					195
Asp	Asn	Lys	Val	Tyr	Ile	Lys	Thr	His	Gly	Glu	His	Val	Gly	Phe
				200					205					210
Arg	Ile	Phe	Met	Asp	Ala	Ile	Leu	Leu	Ser	Leu	Thr	Arg	Lys	Val

	215		220		225
Lys Met Pro Asp	Val Glu Leu Phe Val	Asn Leu Gly Asp Trp	Pro		
	230		235		240
Leu Glu Lys Lys	Lys Ser Asn Ser Asn	Ile His Pro Ile Phe	Ser		
	245		250		255
Trp Cys Gly Ser	Thr Asp Ser Lys Asp	Ile Val Met Pro Thr	Tyr		
	260		265		270
Asp Leu Thr Asp	Ser Val Leu Glu Thr	Met Gly Arg Val Ser	Leu		
	275		280		285
Asp Met Met Ser	Val Gln Ala Asn Thr	Gly Pro Pro Trp Glu	Ser		
	290		295		300
Lys Asn Ser Thr	Ala Val Trp Arg Gly	Arg Asp Ser Arg Lys	Glu		
	305		310		315
Arg Leu Glu Leu	Val Lys Leu Ser Arg	Lys His Pro Glu Leu	Ile		
	320		325		330
Asp Ala Ala Phe	Thr Asn Phe Phe Phe	Phe Lys His Asp Glu	Asn		
	335		340		345
Leu Tyr Gly Pro	Ile Val Lys His Ile	Ser Phe Phe Asp Phe	Phe		
	350		355		360
Lys His Lys Tyr	Gln Ile Asn Ile Asp	Gly Thr Val Ala Ala	Tyr		
	365		370		375
Arg Leu Pro Tyr	Leu Leu Val Gly Asp	Ser Val Val Leu Lys	Gln		
	380		385		390
Asp Ser Ile Tyr	Tyr Glu His Phe Tyr	Asn Glu Leu Gln Pro	Trp		
	395		400		405
Lys His Tyr Ile	Pro Val Lys Ser Asn	Leu Ser Asp Leu Leu	Glu		
	410		415		420
Lys Leu Lys Trp	Ala Lys Asp Phe Asp	Glu Glu Ala Lys Lys	Ile		
	425		430		435
Ala Lys Ala Gly	Gln Glu Phe Ala Arg	Asn Asn Leu Met Gly	Asp		
	440		445		450
Asp Ile Phe Cys	Tyr Tyr Phe Lys Leu	Phe Gln Glu Tyr Ala	Asn		
	455		460		465
Leu Gln Val Ser	Glu Pro Gln Ile Arg	Glu Gly Met Lys Arg	Val		
	470		475		480
Glu Pro Gln Thr	Glu Asp Asp Leu Phe	Pro Cys Thr Cys His	Arg		
	485		490		495
Lys Lys Thr Lys	Asp Glu Leu				
	500				

<210> 9

<211> 282

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 5116906

<400> 9

Met Trp Ala Cys Gly	Val Ile Leu Tyr	Ile Leu Leu Val Gly	Tyr
1	5	10	15
Pro Pro Phe Trp Asp	Glu Asp Gln His Arg	Leu Tyr Gln Gln	Ile
	20	25	30
Lys Ala Gly Ala Tyr	Asp Phe Pro Ser	Pro Glu Trp Asp Thr	Val
	35	40	45

Thr	Pro	Glu	Ala	Lys	Asp	Leu	Ile	Asn	Lys	Met	Leu	Thr	Ile	Asn	50	55	60
Pro	Ala	Lys	Arg	Ile	Thr	Ala	Ser	Glu	Ala	Leu	Lys	His	Pro	Trp	65	70	75
Ile	Cys	Gln	Arg	Ser	Thr	Val	Ala	Ser	Met	Met	His	Arg	Gln	Glu	80	85	90
Thr	Val	Asp	Cys	Leu	Lys	Lys	Phe	Asn	Ala	Arg	Arg	Lys	Leu	Lys	95	100	105
Gly	Ala	Ile	Leu	Thr	Thr	Met	Leu	Ala	Thr	Arg	Asn	Phe	Ser	Ala	110	115	120
Ala	Lys	Ser	Leu	Leu	Lys	Lys	Pro	Asp	Gly	Val	Lys	Glu	Ser	Thr	125	130	135
Glu	Ser	Ser	Asn	Thr	Thr	Ile	Glu	Asp	Glu	Asp	Val	Lys	Ala	Arg	140	145	150
Lys	Gln	Glu	Ile	Ile	Lys	Val	Thr	Glu	Gln	Leu	Ile	Glu	Ala	Ile	155	160	165
Asn	Asn	Gly	Asp	Phe	Glu	Ala	Tyr	Thr	Lys	Ile	Cys	Asp	Pro	Gly	170	175	180
Leu	Thr	Ala	Phe	Glu	Pro	Glu	Ala	Leu	Gly	Asn	Leu	Val	Glu	Gly	185	190	195
Met	Asp	Phe	His	Arg	Phe	Tyr	Phe	Glu	Asn	Ala	Leu	Ser	Lys	Ser	200	205	210
Asn	Lys	Pro	Ile	His	Thr	Ile	Ile	Leu	Asn	Pro	His	Val	His	Leu	215	220	225
Val	Gly	Asp	Asp	Ala	Ala	Cys	Ile	Ala	Tyr	Ile	Arg	Leu	Thr	Gln	230	235	240
Tyr	Met	Asp	Gly	Ser	Gly	Met	Pro	Lys	Thr	Met	Gln	Ser	Glu	Glu	245	250	255
Thr	Arg	Val	Trp	His	Arg	Arg	Asp	Gly	Lys	Trp	Gln	Asn	Val	His	260	265	270
Phe	His	Arg	Ser	Gly	Ser	Pro	Thr	Val	Pro	Ile	Asn				275	280	

<210> 10

<211> 510

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 940589

<400> 10

Met	Lys	Ala	Asp	Ile	Lys	Ile	Trp	Ile	Leu	Thr	Gly	Asp	Lys	Gln	1	5	10	15
Glu	Thr	Ala	Ile	Asn	Ile	Gly	His	Ser	Cys	Lys	Leu	Leu	Lys	Lys	20	25	30	35
Asn	Met	Gly	Met	Ile	Val	Ile	Asn	Glu	Gly	Ser	Leu	Asp	Ser	Phe	40	45	50	55
Ser	Asn	Thr	Gln	Asn	Ser	Arg	Lys	Glu	Ala	Val	Leu	Leu	Ala	Lys	60	65	70	75
Met	Lys	His	Pro	Asn	Ile	Val	Ala	Phe	Lys	Glu	Ser	Phe	Glu	Ala	80	85	90	95
Glu	Gly	His	Leu	Tyr	Ile	Val	Met	Glu	Tyr	Cys	Asp	Gly	Gly	Asp	100	105	110	115

Leu Met Gln Lys Ile Lys Gln Gln Lys Gly Lys Leu Phe Pro Glu	95	100	105
Asp Met Ile Leu Asn Trp Phe Thr Gln Met Cys Leu Gly Val Asn	110	115	120
His Ile His Lys Lys Arg Val Leu His Arg Asp Ile Lys Ser Lys	125	130	135
Asn Ile Phe Leu Thr Gln Asn Gly Lys Val Lys Leu Gly Asp Phe	140	145	150
Gly Ser Ala Arg Leu Leu Ser Asn Pro Met Ala Phe Ala Cys Thr	155	160	165
Tyr Val Gly Thr Pro Tyr Tyr Val Pro Pro Glu Ile Trp Glu Asn	170	175	180
Leu Pro Tyr Asn Asn Lys Ser Asp Ile Trp Ser Leu Gly Cys Ile	185	190	195
Leu Tyr Glu Leu Cys Thr Leu Lys His Pro Phe Gln Ala Asn Ser	200	205	210
Trp Lys Asn Leu Ile Leu Lys Val Cys Gln Gly Cys Ile Ser Pro	215	220	225
Leu Pro Ser His Tyr Ser Tyr Glu Leu Gln Phe Leu Val Lys Gln	230	235	240
Met Phe Lys Arg Asn Pro Ser His Arg Pro Ser Ala Thr Thr Leu	245	250	255
Leu Ser Arg Gly Ile Val Ala Arg Leu Val Gln Lys Cys Leu Pro	260	265	270
Pro Glu Ile Ile Met Glu Tyr Gly Glu Glu Val Leu Glu Glu Ile	275	280	285
Lys Asn Ser Lys His Asn Thr Pro Arg Lys Lys Thr Asn Pro Ser	290	295	300
Arg Ile Arg Ile Ala Leu Gly Asn Glu Ala Ser Thr Val Gln Glu	305	310	315
Glu Glu Gln Asp Arg Lys Gly Ser His Thr Asp Leu Glu Ser Ile	320	325	330
Asn Glu Asn Leu Val Glu Ser Ala Leu Arg Arg Val Asn Arg Glu	335	340	345
Glu Lys Gly Asn Lys Ser Val His Leu Arg Lys Ala Ser Ser Pro	350	355	360
Asn Leu His Arg Arg Gln Trp Glu Lys Asn Val Pro Asn Thr Ala	365	370	375
Leu Thr Ala Leu Glu Asn Ala Ser Ile Leu Thr Ser Ser Leu Thr	380	385	390
Ala Glu Asp Asp Arg Gly Gly Ser Val Ile Lys Tyr Ser Lys Asn	395	400	405
Thr Thr Arg Lys Gln Trp Leu Lys Glu Thr Pro Asp Thr Leu Leu	410	415	420
Asn Ile Leu Lys Asn Ala Asp Leu Ser Leu Ala Phe Gln Thr Tyr	425	430	435
Thr Ile Tyr Arg Pro Gly Ser Glu Gly Phe Leu Lys Gly Pro Leu	440	445	450
Ser Glu Glu Thr Glu Ala Ser Asp Ser Val Asp Gly Gly His Asp	455	460	465
Ser Val Ile Leu Asp Pro Glu Arg Leu Glu Pro Gly Leu Asp Glu	470	475	480
Glu Asp Thr Asp Phe Glu Glu Glu Asp Asp Asn Pro Asp Trp Val	485	490	495
Ser Glu Leu Lys Lys Arg Ala Gly Trp Gln Gly Leu Cys Asp Arg	500	505	510

<210> 11
 <211> 248
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte Clone Number: 304421

<400> 11
 Met Ala Glu Thr Ser Leu Pro Glu Leu Gly Gly Glu Asp Lys Ala
 1 5 10 15
 Thr Pro Cys Pro Ser Ile Leu Glu Leu Glu Glu Leu Leu Arg Ala
 20 25 30
 Gly Lys Ser Ser Cys Ser Arg Val Asp Glu Val Trp Pro Asn Leu
 35 40 45
 Phe Ile Gly Asp Ala Met Asp Ser Leu Gln Lys Gln Asp Leu Arg
 50 55 60
 Arg Pro Lys Ile His Gly Ala Val Gln Ala Ser Pro Tyr Gln Pro
 65 70 75
 Pro Thr Leu Ala Ser Leu Gln Arg Leu Leu Trp Val Arg Gln Ala
 80 85 90
 Ala Thr Leu Asn His Ile Asp Glu Val Trp Pro Ser Leu Phe Leu
 95 100 105
 Gly Asp Ala Tyr Ala Ala Arg Asp Lys Ser Lys Leu Ile Gln Leu
 110 115 120
 Gly Ile Thr His Val Val Asn Ala Ala Ala Gly Lys Phe Gln Val
 125 130 135
 Asp Thr Gly Ala Lys Phe Tyr Arg Gly Met Ser Leu Glu Tyr Tyr
 140 145 150
 Gly Ile Glu Ala Asp Asp Asn Pro Phe Phe Asp Leu Ser Val Tyr
 155 160 165
 Phe Leu Pro Val Ala Arg Tyr Ile Arg Ala Ala Leu Ser Val Pro
 170 175 180
 Gln Gly Arg Val Leu Val His Cys Ala Met Gly Val Ser Arg Ser
 185 190 195
 Ala Thr Leu Val Leu Ala Phe Leu Met Ile Tyr Glu Asn Met Thr
 200 205 210
 Leu Val Glu Ala Ile Gln Thr Val Gln Ala His Arg Asn Ile Cys
 215 220 225
 Pro Asn Ser Gly Phe Leu Arg Gln Leu Gln Val Leu Asp Asn Arg
 230 235 240
 Leu Gly Arg Glu Thr Gly Arg Phe
 245

<210> 12
 <211> 810
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte Clone Number: 1213802

<400> 12

Met	Pro	Asn	Gln	Gly	Glu	Asp	Cys	Tyr	Phe	Phe	Phe	Tyr	Ser	Thr
1				5					10					15
Cys	Thr	Lys	Gly	Asp	Ser	Cys	Pro	Phe	Arg	His	Cys	Glu	Ala	Ala
				20					25					30
Ile	Gly	Asn	Glu	Thr	Val	Cys	Thr	Leu	Trp	Gln	Glu	Gly	Arg	Cys
				35					40					45
Phe	Arg	Gln	Val	Cys	Arg	Phe	Arg	His	Met	Glu	Ile	Asp	Lys	Lys
				50					55					60
Arg	Ser	Glu	Ile	Pro	Cys	Tyr	Trp	Glu	Asn	Gln	Pro	Thr	Gly	Cys
				65					70					75
Gln	Lys	Leu	Asn	Cys	Ala	Phe	His	His	Asn	Arg	Gly	Arg	Tyr	Val
				80					85					90
Asp	Gly	Leu	Phe	Leu	Pro	Pro	Ser	Lys	Thr	Val	Leu	Pro	Thr	Val
				95					100					105
Pro	Glu	Ser	Pro	Glu	Glu	Glu	Val	Lys	Ala	Ser	Gln	Leu	Ser	Val
				110					115					120
Gln	Gln	Asn	Lys	Leu	Ser	Val	Gln	Ser	Asn	Pro	Ser	Pro	Gln	Leu
				125					130					135
Arg	Ser	Val	Met	Lys	Val	Glu	Ser	Ser	Glu	Asn	Val	Pro	Ser	Pro
				140					145					150
Thr	His	Pro	Pro	Val	Val	Ile	Asn	Ala	Ala	Asp	Asp	Asp	Glu	Asp
				155					160					165
Asp	Asp	Asp	Gln	Phe	Ser	Glu	Glu	Gly	Asp	Glu	Thr	Lys	Thr	Pro
				170					175					180
Thr	Leu	Gln	Pro	Thr	Pro	Glu	Val	His	Asn	Gly	Leu	Arg	Val	Thr
				185					190					195
Ser	Val	Arg	Lys	Pro	Ala	Val	Asn	Ile	Lys	Gln	Gly	Glu	Cys	Leu
				200					205					210
Asn	Phe	Gly	Ile	Lys	Thr	Leu	Glu	Glu	Ile	Lys	Ser	Lys	Lys	Met
				215					220					225
Lys	Glu	Lys	Ser	Lys	Lys	Gln	Gly	Glu	Gly	Ser	Ser	Gly	Val	Ser
				230					235					240
Ser	Leu	Leu	Leu	His	Pro	Glu	Pro	Val	Pro	Gly	Pro	Glu	Lys	Glu
				245					250					255
Asn	Val	Arg	Thr	Val	Val	Arg	Thr	Val	Thr	Leu	Ser	Thr	Lys	Gln
				260					265					270
Gly	Glu	Glu	Pro	Leu	Val	Arg	Leu	Ser	Leu	Thr	Glu	Arg	Leu	Gly
				275					280					285
Lys	Arg	Lys	Phe	Ser	Ala	Gly	Gly	Asp	Ser	Asp	Pro	Pro	Leu	Lys
				290					295					300
Arg	Ser	Leu	Ala	Gln	Arg	Leu	Gly	Lys	Lys	Val	Glu	Ala	Pro	Glu
				305					310					315
Thr	Asn	Ile	Asp	Lys	Thr	Pro	Lys	Lys	Ala	Gln	Val	Ser	Lys	Ser
				320					325					330
Leu	Lys	Glu	Arg	Leu	Gly	Met	Ser	Ala	Asp	Pro	Asp	Asn	Glu	Asp
				335					340					345
Ala	Thr	Asp	Lys	Val	Asn	Lys	Val	Gly	Glu	Ile	His	Val	Lys	Thr
				350					355					360
Leu	Glu	Glu	Ile	Leu	Leu	Glu	Arg	Ala	Ser	Gln	Lys	Arg	Gly	Glu
				365					370					375
Leu	Gln	Thr	Lys	Leu	Lys	Thr	Glu	Gly	Pro	Ser	Lys	Thr	Asp	Asp
				380					385					390
Ser	Thr	Ser	Gly	Ala	Arg	Ser	Ser	Ser	Thr	Ile	Arg	Ile	Lys	Thr
				395					400					405
Phe	Ser	Glu	Val	Leu	Ala	Glu	Lys	Lys	His	Arg	Gln	Gln	Glu	Ala

	410	415	420
Glu Arg Gln Lys Ser Lys Lys Asp Thr Thr Cys Ile Lys Leu Lys			
	425	430	435
Ile Asp Ser Glu Ile Lys Lys Thr Val Val Leu Pro Pro Ile Val			
	440	445	450
Ala Ser Arg Gly Gln Ser Glu Glu Pro Ala Gly Lys Thr Lys Ser			
	455	460	465
Met Gln Glu Val His Ile Lys Thr Leu Glu Glu Ile Lys Leu Glu			
	470	475	480
Lys Ala Leu Arg Val Gln Gln Ser Ser Glu Ser Ser Thr Ser Ser			
	485	490	495
Pro Ser Gln His Glu Ala Thr Pro Gly Ala Arg Arg Leu Leu Arg			
	500	505	510
Ile Thr Lys Arg Thr Gly Met Lys Glu Glu Lys Asn Leu Gln Glu			
	515	520	525
Gly Asn Glu Val Asp Ser Gln Ser Ser Ile Arg Thr Glu Ala Lys			
	530	535	540
Glu Ala Ser Gly Glu Thr Thr Gly Val Asp Ile Thr Lys Ile Gln			
	545	550	555
Val Lys Arg Cys Glu Thr Met Arg Glu Lys His Met Gln Lys Gln			
	560	565	570
Gln Glu Arg Glu Lys Ser Val Leu Thr Pro Leu Arg Gly Asp Val			
	575	580	585
Ala Ser Cys Asn Thr Gln Val Ala Glu Lys Pro Val Leu Thr Ala			
	590	595	600
Val Pro Gly Ile Thr Arg His Leu Thr Lys Arg Leu Pro Thr Lys			
	605	610	615
Ser Ser Gln Lys Val Glu Val Glu Thr Ser Gly Ile Gly Asp Ser			
	620	625	630
Leu Leu Asn Val Lys Cys Ala Ala Gln Thr Leu Glu Lys Arg Gly			
	635	640	645
Lys Ala Lys Pro Lys Val Asn Val Lys Pro Ser Val Val Lys Val			
	650	655	660
Val Ser Ser Pro Lys Leu Ala Pro Lys Arg Lys Ala Val Glu Met			
	665	670	675
His Ala Ala Val Ile Ala Ala Val Lys Pro Leu Ser Ser Ser Ser			
	680	685	690
Val Leu Gln Glu Pro Pro Ala Lys Lys Ala Ala Val Ala Val Val			
	695	700	705
Pro Leu Val Ser Glu Asp Lys Ser Val Thr Val Pro Glu Ala Glu			
	710	715	720
Asn Pro Arg Asp Ser Leu Val Leu Pro Pro Thr Gln Ser Ser Ser			
	725	730	735
Asp Ser Ser Pro Pro Glu Val Ser Gly Pro Ser Ser Ser Gln Met			
	740	745	750
Ser Met Lys Thr Arg Arg Leu Ser Ser Ala Ser Thr Gly Lys Pro			
	755	760	765
Pro Leu Ser Val Glu Asp Asp Phe Glu Lys Leu Ile Trp Glu Ile			
	770	775	780
Ser Gly Gly Lys Leu Glu Ala Glu Ile Asp Leu Asp Pro Gly Lys			
	785	790	795
Asp Glu Asp Asp Leu Leu Leu Glu Leu Ser Glu Met Ile Asp Ser			
	800	805	810

<210> 13

<Q11> 549

<Q12> PRT

<Q13> Homo sapiens

<Q20>

<Q21> misc_feature

<Q23> Incyte Clone Number: 1378134

<Q400> 13

Met	Arg	Arg	Arg	Ala	Ser	Asn	Ala	Ala	Ala	Ala	Ala	His	Thr	Ile
1				5					10					15
Gly	Gly	Ser	Lys	His	Thr	Met	Asn	Asp	His	Leu	His	Val	Gly	Ser
				20					25					30
His	Ala	His	Gly	Gln	Ile	Gln	Val	Arg	Gln	Leu	Phe	Glu	Asp	Asn
				35					40					45
Ser	Asn	Lys	Arg	Thr	Val	Leu	Thr	Thr	Gln	Pro	Asn	Gly	Leu	Thr
				50					55					60
Thr	Val	Gly	Lys	Thr	Gly	Leu	Pro	Val	Val	Pro	Glu	Arg	Gln	Leu
				65					70					75
Asp	Ser	Ile	His	Arg	Arg	Gln	Gly	Ser	Ser	Thr	Ser	Leu	Lys	Ser
				80					85					90
Met	Glu	Gly	Met	Gly	Lys	Val	Lys	Ala	Thr	Pro	Met	Thr	Pro	Glu
				95					100					105
Gln	Ala	Met	Lys	Gln	Tyr	Met	Gln	Lys	Leu	Thr	Ala	Phe	Glu	His
				110					115					120
His	Glu	Ile	Phe	Ser	Tyr	Pro	Glu	Ile	Tyr	Phe	Leu	Gly	Leu	Asn
				125					130					135
Ala	Lys	Lys	Arg	Gln	Gly	Met	Thr	Gly	Gly	Pro	Asn	Asn	Gly	Gly
				140					145					150
Tyr	Asp	Asp	Asp	Gln	Gly	Ser	Tyr	Val	Gln	Val	Pro	His	Asp	His
				155					160					165
Val	Ala	Tyr	Arg	Tyr	Glu	Val	Leu	Lys	Val	Ile	Gly	Lys	Gly	Ser
				170					175					180
Phe	Gly	Gln	Val	Val	Lys	Ala	Tyr	Asp	His	Lys	Val	His	Gln	His
				185					190					195
Val	Ala	Leu	Lys	Met	Val	Arg	Asn	Glu	Lys	Arg	Phe	His	Arg	Gln
				200					205					210
Ala	Ala	Glu	Glu	Ile	Arg	Ile	Leu	Glu	His	Leu	Arg	Lys	Gln	Asp
				215					220					225
Lys	Asp	Asn	Thr	Met	Asn	Val	Ile	His	Met	Leu	Glu	Asn	Phe	Thr
				230					235					240
Phe	Arg	Asn	His	Ile	Cys	Met	Thr	Phe	Glu	Leu	Leu	Ser	Met	Asn
				245					250					255
Leu	Tyr	Glu	Leu	Ile	Lys	Lys	Asn	Lys	Phe	Gln	Gly	Phe	Ser	Leu
				260					265					270
Pro	Leu	Val	Arg	Lys	Phe	Ala	His	Ser	Ile	Leu	Gln	Cys	Leu	Asp
				275					280					285
Ala	Leu	His	Lys	Asn	Arg	Ile	Ile	His	Cys	Asp	Leu	Lys	Pro	Glu
				290					295					300
Asn	Ile	Leu	Leu	Lys	Gln	Gln	Gly	Arg	Ser	Gly	Ile	Lys	Val	Ile
				305					310					315
Asp	Phe	Gly	Ser	Ser	Cys	Tyr	Glu	His	Gln	Arg	Val	Tyr	Thr	Tyr
				320					325					330
Ile	Gln	Ser	Arg	Phe	Tyr	Arg	Ala	Pro	Glu	Val	Ile	Leu	Gly	Ala
				335					340					345
Arg	Tyr	Gly	Met	Pro	Ile	Asp	Met	Trp	Ser	Leu	Gly	Cys	Ile	Leu

Ala Glu Leu Leu	350	355	360
Thr Gly Tyr Pro Leu		Pro Gly Glu Asp Glu	
	365	370	375
Gly Asp Gln Leu	Ala Cys Met Ile Glu	Leu Leu Gly Met Pro Ser	
	380	385	390
Gln Lys Leu Leu	Asp Ala Ser Lys Arg	Ala Lys Asn Phe Val Ser	
	395	400	405
Ser Lys Gly Tyr	Pro Arg Tyr Cys Thr	Val Thr Thr Leu Ser Asp	
	410	415	420
Gly Ser Val Val	Leu Asn Gly Gly Arg	Ser Arg Arg Gly Lys Leu	
	425	430	435
Arg Gly Pro Pro	Glu Ser Arg Glu Trp	Gly Asn Ala Leu Lys Gly	
	440	445	450
Cys Asp Asp Pro	Leu Phe Leu Asp Phe	Leu Lys Gln Cys Leu Glu	
	455	460	465
Trp Asp Pro Ala	Val Arg Met Thr Pro	Gly Gln Ala Leu Arg His	
	470	475	480
Pro Trp Leu Arg	Arg Arg Leu Pro Lys	Pro Pro Thr Gly Glu Lys	
	485	490	495
Thr Ser Val Lys	Arg Ile Thr Glu Ser	Thr Gly Ala Ile Thr Ser	
	500	505	510
Ile Ser Lys Leu	Pro Pro Pro Ser Ser	Ser Ala Ser Lys Leu Arg	
	515	520	525
Thr Asn Leu Ala	Gln Met Thr Asp Ala	Asn Gly Asn Ile Gln Gln	
	530	535	540
Arg Thr Val Leu	Pro Lys Leu Val Ser		
	545		

<210> 14

<211> 416

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1490070

<400> 14

Met Met Pro Gln Leu Gln Phe Lys Asp	Ala Phe Trp Cys Arg Asp
1	5 10 15
Phe Thr Ala His Thr Gly Tyr Glu Val	Leu Leu Gln Arg Leu Leu
20	25 30
Asp Gly Arg Lys Met Cys Lys Asp Met	Val Glu Leu Leu Trp Gln
35	40 45
Arg Ala Gln Ala Glu Arg Tyr Gly Lys	Glu Leu Val Gln Ile
50	55 60
Ala Arg Lys Ala Gly Gly Gln Thr Glu	Ile Asn Ser Leu Arg Ala
65	70 75
Ser Phe Asp Ser Leu Lys Gln Gln Met	Glu Asn Val Gly Ser Ser
80	85 90
His Ile Gln Leu Ala Leu Thr Leu Arg	Glu Glu Leu Arg Ser Leu
95	100 105
Glu Glu Phe Arg Glu Arg Gln Lys Glu	Gln Arg Lys Lys Tyr Glu
110	115 120
Ala Val Met Asp Arg Val Gln Lys Ser	Lys Leu Ser Leu Tyr Lys

	125		130		135
Lys Ala Met Glu Ser Lys Lys Thr Tyr Glu Gln Lys Cys Arg Asp	140		145		150
Ala Asp Asp Ala Glu Gln Ala Phe Glu Arg Ile Ser Ala Asn Gly	155		160		165
His Gln Lys Gln Val Glu Lys Ser Gln Asn Lys Ala Arg Gln Cys	170		175		180
Lys Asp Ser Ala Thr Glu Ala Glu Arg Val Tyr Arg Gln Ser Ile	185		190		195
Ala Gln Leu Glu Lys Val Arg Ala Glu Trp Glu Gln Glu His Arg	200		205		210
Thr Thr Cys Glu Ala Phe Gln Leu Gln Glu Phe Asp Arg Leu Thr	215		220		225
Ile Leu Arg Asn Ala Leu Trp Val His Ser Asn Gln Leu Ser Met	230		235		240
Gln Cys Val Lys Asp Asp Glu Leu Tyr Glu Glu Val Arg Leu Thr	245		250		255
Leu Glu Gly Cys Ser Ile Asp Ala Asp Ile Asp Ser Phe Ile Gln	260		265		270
Ala Lys Ser Thr Gly Thr Glu Pro Pro Ala Pro Val Pro Tyr Gln	275		280		285
Asn Tyr Tyr Asp Arg Glu Val Thr Pro Leu Thr Ser Ser Pro Gly	290		295		300
Ile Gln Pro Ser Cys Gly Met Ile Lys Arg Phe Ser Gly Leu Leu	305		310		315
His Gly Ser Pro Lys Thr Thr Ser Leu Ala Ala Ser Ala Ala Ser	320		325		330
Thr Glu Thr Leu Thr Pro Thr Pro Glu Arg Asn Glu Gly Val Tyr	335		340		345
Thr Ala Ile Ala Val Gln Glu Ile Gln Gly Asn Pro Ala Ser Pro	350		355		360
Ala Gln Glu Tyr Arg Ala Leu Tyr Asp Tyr Thr Ala Gln Asn Pro	365		370		375
Asp Glu Leu Asp Leu Ser Ala Gly Asp Ile Leu Glu Val Ile Leu	380		385		390
Glu Gly Glu Asp Gly Trp Trp Thr Val Glu Arg Asn Gly Gln Arg	395		400		405
Gly Phe Val Pro Gly Ser Tyr Leu Glu Lys Leu	410		415		

<210> 15

<211> 425

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1997814

<400> 15

Met Glu Gln Gly Leu Glu Glu Glu Glu Glu Val Asp Pro Arg Ile		
1	5	10
Gln Gly Glu Leu Glu Lys Leu Asn Gln Ser Thr Asp Asp Ile Asn		
20	25	30
Arg Arg Glu Thr Glu Leu Glu Asp Ala Arg Gln Lys Phe Arg Ser		
35	40	45

Val	Leu	Val	Glu	Ala	Thr	Val	Lys	Leu	Asp	Glu	Leu	Val	Lys	Lys	50	55	60
Ile	Gly	Lys	Ala	Val	Glu	Asp	Ser	Lys	Pro	Tyr	Trp	Glu	Ala	Arg	55	70	75
Arg	Val	Ala	Arg	Gln	Ala	Gln	Leu	Glu	Ala	Gln	Lys	Ala	Thr	Gln	80	85	90
Asp	Phe	Gln	Arg	Ala	Thr	Glu	Val	Leu	Arg	Ala	Ala	Lys	Glu	Thr	95	100	105
Ile	Ser	Leu	Ala	Glu	Gln	Arg	Leu	Leu	Glu	Asp	Asp	Lys	Arg	Gln	110	115	120
Phe	Asp	Ser	Ala	Trp	Gln	Glu	Met	Leu	Asn	His	Ala	Thr	Gln	Arg	125	130	135
Val	Met	Glu	Ala	Glu	Gln	Thr	Lys	Thr	Arg	Ser	Glu	Leu	Val	His	140	145	150
Lys	Glu	Thr	Ala	Ala	Arg	Tyr	Asn	Ala	Ala	Met	Gly	Arg	Met	Arg	155	160	165
Gln	Leu	Glu	Lys	Lys	Leu	Lys	Arg	Ala	Ile	Asn	Lys	Ser	Lys	Pro	170	175	180
Tyr	Phe	Glu	Leu	Lys	Ala	Lys	Tyr	Tyr	Val	Gln	Leu	Glu	Gln	Leu	185	190	195
Lys	Lys	Thr	Val	Asp	Asp	Leu	Gln	Ala	Lys	Leu	Thr	Leu	Ala	Lys	200	205	210
Gly	Glu	Tyr	Lys	Met	Ala	Leu	Lys	Asn	Leu	Glu	Met	Ile	Ser	Asp	215	220	225
Glu	Ile	His	Glu	Arg	Arg	Arg	Ser	Ser	Ala	Met	Gly	Pro	Arg	Gly	230	235	240
Cys	Gly	Val	Gly	Ala	Glu	Gly	Ser	Ser	Thr	Ser	Val	Glu	Asp	Leu	245	250	255
Pro	Gly	Ser	Lys	Pro	Glu	Pro	Asp	Ala	Ile	Ser	Val	Ala	Ser	Glu	260	265	270
Ala	Phe	Glu	Asp	Asp	Ser	Cys	Ser	Asn	Phe	Val	Ser	Glu	Asp	Asp	275	280	285
Ser	Glu	Thr	Gln	Ser	Val	Ser	Ser	Phe	Ser	Ser	Gly	Pro	Thr	Ser	290	295	300
Pro	Ser	Glu	Met	Pro	Asp	Gln	Phe	Pro	Ala	Val	Val	Arg	Pro	Gly	305	310	315
Ser	Leu	Asp	Leu	Pro	Ser	Pro	Val	Ser	Leu	Ser	Glu	Phe	Gly	Met	320	325	330
Met	Phe	Pro	Val	Leu	Gly	Pro	Arg	Ser	Glu	Cys	Ser	Gly	Ala	Ser	335	340	345
Ser	Pro	Glu	Cys	Glu	Val	Glu	Arg	Gly	Asp	Arg	Ala	Glu	Gly	Ala	350	355	360
Glu	Asn	Lys	Thr	Ser	Asp	Lys	Ala	Asn	Asn	Asn	Arg	Gly	Leu	Ser	365	370	375
Ser	Ser	Ser	Gly	Ser	Gly	Gly	Ser	Ser	Lys	Ser	Gln	Ser	Ser	Thr	380	385	390
Ser	Pro	Glu	Gly	Gln	Ala	Leu	Glu	Asn	Arg	Met	Lys	Gln	Leu	Ser	395	400	405
Leu	Gln	Cys	Ser	Lys	Gly	Arg	Asp	Gly	Ile	Ile	Ala	Asp	Ile	Lys	410	415	420
Met	Val	Gln	Ile	Gly											425		

<210> 16

<211> 1135

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2299715

<400> 16

Met	Ala	Asn	Asp	Ser	Pro	Ala	Lys	Ser	Leu	Val	Asp	Ile	Asp	Leu					
1				5					10					15					
Ser	Ser	Leu	Arg	Asp	Pro	Ala	Gly	Ile	Phe	Glu	Leu	Val	Glu	Val					
				20					25					30					
Val	Gly	Asn	Gly	Thr	Tyr	Gly	Gln	Val	Tyr	Lys	Gly	Arg	His	Val					
				35					40					45					
Lys	Thr	Gly	Gln	Leu	Ala	Ala	Ile	Lys	Val	Met	Asp	Val	Thr	Glu					
				50					55					60					
Asp	Glu	Glu	Glu	Glu	Ile	Lys	Leu	Glu	Ile	Asn	Met	Leu	Lys	Lys					
				65					70					75					
Tyr	Ser	His	His	Arg	Asn	Ile	Ala	Thr	Tyr	Tyr	Gly	Ala	Phe	Ile					
				80					85					90					
Lys	Lys	Ser	Pro	Pro	Gly	His	Asp	Asp	Gln	Leu	Trp	Leu	Val	Met					
				95					100					105					
Glu	Phe	Cys	Gly	Ala	Gly	Ser	Ile	Thr	Asp	Leu	Val	Lys	Asn	Thr					
				110					115					120					
Lys	Gly	Asn	Thr	Leu	Lys	Glu	Asp	Trp	Ile	Ala	Tyr	Ile	Ser	Arg					
				125					130					135					
Glu	Ile	Leu	Arg	Gly	Leu	Ala	His	Leu	His	Ile	His	His	Val	Ile					
				140					145					150					
His	Arg	Asp	Ile	Lys	Gly	Gln	Asn	Val	Leu	Leu	Thr	Glu	Asn	Ala					
				155					160					165					
Gly	Val	Lys	Leu	Val	Asp	Phe	Gly	Val	Ser	Ala	Gln	Leu	Asp	Arg					
				170					175					180					
Thr	Val	Gly	Arg	Arg	Asn	Thr	Phe	Ile	Gly	Thr	Pro	Tyr	Trp	Met					
				185					190					195					
Ala	Pro	Glu	Val	Ile	Ala	Cys	Asp	Glu	Asn	Pro	Asp	Ala	Thr	Tyr					
				200					205					210					
Asp	Tyr	Arg	Ser	Asp	Leu	Trp	Ser	Cys	Gly	Ile	Thr	Ala	Ile	Glu					
				215					220					225					
Met	Ala	Glu	Gly	Ala	Pro	Pro	Leu	Cys	Asp	Met	His	Pro	Met	Arg					
				230					235					240					
Ala	Leu	Phe	Leu	Ile	Pro	Arg	Asn	Pro	Pro	Pro	Arg	Leu	Lys	Ser					
				245					250					255					
Lys	Lys	Trp	Ser	Lys	Lys	Phe	Phe	Ser	Phe	Ile	Glu	Gly	Cys	Leu					
				260					265					270					
Val	Lys	Asn	Tyr	Met	Gln	Arg	Pro	Ser	Thr	Glu	Gln	Leu	Leu	Lys					
				275					280					285					
His	Pro	Phe	Ile	Arg	Asp	Gln	Pro	Asn	Glu	Arg	Gln	Val	Arg	Ile					
				290					295					300					
Gln	Leu	Lys	Asp	His	Ile	Asp	Arg	Thr	Arg	Lys	Lys	Arg	Gly	Glu					
				305					310					315					
Lys	Asp	Glu	Thr	Glu	Tyr	Glu	Tyr	Ser	Gly	Ser	Glu	Glu	Glu	Glu					
				320					325					330					
Glu	Glu	Val	Pro	Glu	Gln	Glu	Gly	Glu	Pro	Ser	Ser	Ile	Val	Asn					
				335					340					345					
Val	Pro	Gly	Glu	Ser	Thr	Leu	Arg	Arg	Asp	Phe	Leu	Arg	Leu	Gln					

	350		355		360
Gln Glu Asn Lys	Glu Arg Ser Glu Ala	Leu Arg Arg Gln Gln	Leu		
	365		370		375
Leu Gln Glu Gln	Gln Leu Arg Glu Gln	Glu Glu Tyr Lys Arg	Gln		
	380		385		390
Leu Leu Ala Glu	Arg Gln Lys Arg Ile	Glu Gln Gln Lys Glu	Gln		
	395		400		405
Arg Arg Arg Leu	Glu Glu Gln Gln Arg	Arg Glu Arg Glu Ala	Arg		
	410		415		420
Arg Gln Gln Glu	Arg Glu Gln Arg Arg	Arg Glu Gln Glu Glu	Lys		
	425		430		435
Arg Arg Leu Glu	Glu Leu Glu Arg Arg	Arg Lys Glu Glu Glu	Glu		
	440		445		450
Arg Arg Arg Ala	Glu Glu Glu Lys Arg	Arg Val Glu Arg Glu	Gln		
	455		460		465
Glu Tyr Ile Arg	Arg Gln Leu Glu Glu	Glu Gln Arg His Leu	Glu		
	470		475		480
Val Leu Gln Gln	Gln Leu Leu Gln Glu	Ala Met Leu Leu	His		
	485		490		495
Asp His Arg Arg	Pro His Pro Gln His	Ser Gln Gln Pro Pro	Pro		
	500		505		510
Pro Gln Gln Glu	Arg Ser Lys Pro Ser	Phe His Ala Pro Glu	Pro		
	515		520		525
Lys Ala His Tyr	Glu Pro Ala Asp Arg	Ala Arg Glu Val Pro	Val		
	530		535		540
Arg Thr Thr Ser	Arg Ser Pro Val Leu	Ser Arg Arg Asp Ser	Pro		
	545		550		555
Leu Gln Gly Ser	Gly Gln Gln Asn Ser	Gln Ala Gly Gln Arg	Asn		
	560		565		570
Ser Thr Ser Ile	Glu Pro Arg Leu Leu	Trp Glu Arg Val Glu	Lys		
	575		580		585
Leu Val Pro Arg	Pro Gly Ser Gly Ser	Ser Ser Gly Ser Ser	Asn		
	590		595		600
Ser Gly Ser Gln	Pro Gly Ser His Pro	Gly Ser Gln Ser Gly	Ser		
	605		610		615
Gly Glu Arg Phe	Arg Val Arg Ser Ser	Ser Lys Ser Glu Gly	Ser		
	620		625		630
Pro Ser Gln Arg	Leu Glu Asn Ala Val	Lys Lys Pro Glu Asp	Lys		
	635		640		645
Lys Glu Val Phe	Arg Pro Leu Lys Pro	Ala Asp Leu Thr Ala	Leu		
	650		655		660
Ala Lys Glu Leu	Arg Ala Val Glu Asp	Val Arg Pro Pro His	Lys		
	665		670		675
Val Thr Asp Tyr	Ser Ser Ser Ser Glu	Glu Ser Gly Thr Thr	Asp		
	680		685		690
Glu Glu Asp Asp	Asp Val Glu Gln Glu	Gly Ala Asp Glu Ser	Thr		
	695		700		705
Ser Gly Pro Glu	Asp Thr Arg Ala Ala	Ser Ser Leu Asn Leu	Ser		
	710		715		720
Asn Gly Glu Thr	Glu Ser Val Lys Thr	Met Ile Val His Asp	Asp		
	725		730		735
Val Glu Ser Glu	Pro Ala Met Thr Pro	Ser Lys Glu Gly Thr	Leu		
	740		745		750
Ile Val Arg Gln	Thr Gln Ser Ala Ser	Ser Thr Leu Gln Lys	His		
	755		760		765
Lys Ser Ser Ser	Ser Phe Thr Pro Phe	Ile Asp Pro Arg Leu	Leu		

	770		775		780
Gln Ile Ser Pro Ser Ser Gly Thr Thr		Val Thr Ser Val Val Gly			
	785		790		795
Phe Ser Cys Asp Gly Met Arg Pro Glu Ala		Ile Arg Gln Asp Pro			
	800		805		810
Thr Arg Lys Gly Ser Val Val Asn Val Asn		Pro Thr Asn Thr Arg			
	815		820		825
Pro Gln Ser Asp Thr Pro Glu Ile Arg Lys		Tyr Lys Lys Arg Phe			
	830		835		840
Asn Ser Glu Ile Leu Cys Ala Ala Leu Trp		Gly Val Asn Leu Leu			
	845		850		855
Val Gly Thr Glu Ser Gly Leu Met Leu Leu		Asp Arg Ser Gly Gln			
	860		865		870
Gly Lys Val Tyr Pro Leu Ile Asn Arg Arg		Arg Phe Gln Gln Met			
	875		880		885
Asp Val Leu Glu Gly Leu Asn Val Leu Val		Thr Ile Ser Gly Lys			
	890		895		900
Lys Asp Lys Leu Arg Val Tyr Tyr Leu Ser		Trp Leu Arg Asn Lys			
	905		910		915
Ile Leu His Asn Asp Pro Glu Val Glu Lys		Lys Gln Gly Trp Thr			
	920		925		930
Thr Val Gly Asp Leu Glu Gly Cys Val His		Tyr Lys Val Val Lys			
	935		940		945
Tyr Glu Arg Ile Lys Phe Leu Val Ile Ala		Leu Lys Ser Ser Val			
	950		955		960
Glu Val Tyr Ala Trp Ala Pro Lys Pro Tyr		His Lys Phe Met Ala			
	965		970		975
Phe Lys Ser Phe Gly Glu Leu Val His Gly		Ser Cys Ala Gly Phe			
	980		985		990
His Ala Val Asp Val Asp Ser Gly Ser Val		Tyr Asp Ile Tyr Leu			
	995		1000		1005
Pro Thr His Ile Gln Cys Ser Ile Lys Pro		His Ala Ile Ile Ile			
	1010		1015		1020
Leu Pro Asn Thr Asp Gly Met Glu Leu Leu		Val Cys Tyr Glu Asp			
	1025		1030		1035
Glu Gly Val Tyr Val Asn Thr Tyr Gly Arg		Ile Thr Lys Asp Val			
	1040		1045		1050
Val Leu Gln Trp Gly Glu Met Pro Thr Ser		Val Ala Tyr Ile Arg			
	1055		1060		1065
Ser Asn Gln Thr Met Gly Trp Gly Glu Lys		Ala Ile Glu Ile Arg			
	1070		1075		1080
Ser Val Glu Thr Gly His Leu Asp Gly Val		Phe Met His Lys Arg			
	1085		1090		1095
Ala Gln Arg Leu Lys Phe Leu Cys Glu Arg		Asn Asp Lys Val Phe			
	1100		1105		1110
Phe Ala Ser Val Arg Ser Gly Gly Ser Ser		Gln Val Tyr Phe Met			
	1115		1120		1125
Thr Leu Gly Arg Thr Ser Leu Leu Ser Trp					
	1130		1135		

<210> 17

<211> 228

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 209854

<400> 17

```

Met Pro Thr Asn Cys Ala Ala Ala Gly Cys Ala Thr Thr Tyr Asn
  1                      5                      10                      15
Lys His Ile Asn Ile Ser Phe His Arg Phe Pro Leu Asp Pro Lys
                      20                      25                      30
Arg Arg Lys Glu Trp Val Arg Leu Val Arg Arg Lys Asn Phe Val
                      35                      40                      45
Pro Gly Lys His Thr Phe Leu Cys Ser Lys His Phe Glu Ala Ser
                      50                      55                      60
Cys Phe Asp Leu Thr Gly Gln Thr Arg Arg Leu Lys Met Asp Ala
                      65                      70                      75
Val Pro Thr Ile Phe Asp Phe Cys Thr His Ile Lys Ser Met Lys
                      80                      85                      90
Leu Lys Ser Arg Asn Leu Leu Lys Lys Asn Asn Ser Cys Ser Pro
                      95                      100                      105
Ala Gly Pro Ser Asn Leu Lys Ser Asn Ile Ser Ser Gln Gln Val
                      110                      115                      120
Leu Leu Glu His Ser Tyr Ala Phe Arg Asn Pro Met Glu Ala Lys
                      125                      130                      135
Lys Arg Ile Ile Lys Leu Glu Lys Glu Ile Ala Ser Leu Arg Arg
                      140                      145                      150
Lys Met Lys Thr Cys Leu Gln Lys Glu Arg Arg Ala Thr Arg Arg
                      155                      160                      165
Trp Ile Lys Ala Thr Cys Leu Val Lys Asn Leu Glu Ala Asn Ser
                      170                      175                      180
Val Leu Pro Lys Gly Thr Ser Glu His Met Leu Pro Thr Ala Leu
                      185                      190                      195
Ser Ser Leu Pro Leu Glu Asp Phe Lys Ile Leu Glu Gln Asp Gln
                      200                      205                      210
Gln Asp Lys Thr Leu Leu Ser Leu Asn Leu Lys Gln Thr Lys Ser
                      215                      220                      225
Thr Phe Ile

```

<210> 18

<211> 503

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1384286

<400> 18

```

Met Ala Thr Thr Val Thr Cys Thr Arg Phe Thr Asp Glu Tyr Gln
  1                      5                      10                      15
Leu Tyr Glu Asp Ile Gly Lys Gly Ala Phe Ser Val Val Arg Arg
                      20                      25                      30
Cys Val Lys Leu Cys Thr Gly His Glu Tyr Ala Ala Lys Ile Ile
                      35                      40                      45
Asn Thr Lys Lys Leu Ser Ala Arg Asp His Gln Lys Leu Glu Arg

```

	50		55		60
Glu Ala Arg Ile	Cys Arg Leu Leu Lys	His Ser Asn Ile Val Arg			
	65		70		75
Leu His Asp Ser	Ile Ser Glu Glu Gly Phe	His Tyr Leu Val Phe			
	80		85		90
Asp Leu Val Thr	Gly Gly Glu Leu Phe	Glu Asp Ile Val Ala Arg			
	95		100		105
Glu Tyr Tyr Ser	Glu Ala Asp Ala Ser	His Cys Ile Gln Gln Ile			
	110		115		120
Leu Glu Ala Val	Leu His Cys His Gln	Met Gly Val Val His Arg			
	125		130		135
Asp Leu Lys Pro	Glu Asn Leu Leu Leu	Ala Ser Lys Cys Lys Gly			
	140		145		150
Ala Ala Val Lys	Leu Ala Asp Phe Gly	Leu Ala Ile Glu Val Gln			
	155		160		165
Gly Asp Gln Gln	Ala Trp Phe Gly Phe	Ala Gly Thr Pro Gly Tyr			
	170		175		180
Leu Ser Pro Glu	Val Leu Arg Lys Glu	Ala Tyr Gly Lys Pro Val			
	185		190		195
Asp Ile Trp Ala	Cys Gly Val Ile Leu	Tyr Ile Leu Leu Val Gly			
	200		205		210
Tyr Pro Pro Phe	Trp Asp Glu Asp Gln	His Lys Leu Tyr Gln Gln			
	215		220		225
Ile Lys Ala Gly	Ala Tyr Asp Phe Pro	Ser Pro Glu Trp Asp Thr			
	230		235		240
Val Thr Pro Glu	Ala Lys Asn Leu Ile	Asn Gln Met Leu Thr Ile			
	245		250		255
Asn Pro Ala Lys	Arg Ile Thr Ala His	Glu Ala Leu Lys His Pro			
	260		265		270
Trp Val Cys Gln	Arg Ser Thr Val Ala	Ser Met Met His Arg Gln			
	275		280		285
Glu Thr Val Glu	Cys Leu Lys Lys Phe	Asn Ala Arg Arg Lys Leu			
	290		295		300
Lys Gly Ala Ile	Leu Thr Thr Met Leu	Ala Thr Arg Asn Phe Ser			
	305		310		315
Ala Ala Lys Ser	Leu Leu Asn Lys Lys	Ala Asp Gly Val Lys Pro			
	320		325		330
His Thr Asn Ser	Thr Lys Asn Ser Ala	Ala Ala Thr Ser Pro Lys			
	335		340		345
Gly Thr Leu Pro	Pro Ala Ala Leu Glu	Ser Ser Asp Ser Ala Asn			
	350		355		360
Thr Thr Ile Glu	Asp Glu Asp Ala Lys	Ala Arg Lys Gln Glu Ile			
	365		370		375
Ile Lys Thr Thr	Glu Gln Leu Ile Glu	Ala Val Asn Asn Gly Asp			
	380		385		390
Phe Glu Ala Tyr	Ala Lys Ile Cys Asp	Pro Gly Leu Thr Ser Phe			
	395		400		405
Glu Pro Glu Ala	Leu Gly Asn Leu Val	Glu Gly Met Asp Phe His			
	410		415		420
Arg Phe Tyr Phe	Glu Asn Leu Leu Ala	Lys Asn Ser Lys Pro Ile			
	425		430		435
His Thr Thr Ile	Leu Asn Pro His Val	His Val Ile Gly Glu Asp			
	440		445		450
Ala Ala Cys Ile	Ala Tyr Ile Arg Leu	Thr Gln Tyr Ile Asp Gly			
	455		460		465
Gln Gly Arg Pro	Arg Thr Ser Gln Ser	Glu Glu Thr Arg Val Trp			

	470		475		480
His Arg Arg Asp Gly Lys Trp Gln Asn Val His Phe His Cys Ser					
	485		490		495
Gly Ala Pro Val Ala Pro Leu Gln					
	500				

<210> 19
 <211> 433
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte Clone Number: 1512656

<400> 19
 Met Thr Gly Glu Ala Gln Ala Gly Arg Lys Arg Ser Arg Ala Arg
 1 5 10 15
 Pro Glu Gly Thr Glu Pro Val Arg Arg Glu Arg Thr Gln Pro Gly
 20 25 30
 Leu Gly Pro Gly Arg Ala Arg Ala Met Ala Ala Glu Ala Thr Ala
 35 40 45
 Val Ala Gly Ser Gly Ala Val Gly Gly Cys Leu Ala Lys Asp Gly
 50 55 60
 Leu Gln Gln Ser Lys Cys Pro Asp Thr Thr Pro Lys Arg Arg Arg
 65 70 75
 Ala Ser Ser Leu Ser Arg Asp Ala Glu Arg Arg Ala Tyr Gln Trp
 80 85 90
 Cys Arg Glu Tyr Leu Gly Gly Ala Trp Arg Arg Val Gln Pro Glu
 95 100 105
 Glu Leu Arg Val Tyr Pro Val Ser Gly Gly Leu Ser Asn Leu Leu
 110 115 120
 Phe Arg Cys Ser Leu Pro Asp His Leu Pro Ser Val Gly Glu Glu
 125 130 135
 Pro Arg Glu Val Leu Leu Arg Leu Tyr Gly Ala Ile Leu Gln Gly
 140 145 150
 Val Asp Ser Leu Val Leu Glu Ser Val Met Phe Ala Ile Leu Ala
 155 160 165
 Glu Arg Ser Leu Gly Pro Gln Leu Tyr Gly Val Phe Pro Glu Gly
 170 175 180
 Arg Leu Glu Gln Tyr Ile Pro Ser Arg Pro Leu Lys Thr Gln Glu
 185 190 195
 Leu Arg Glu Pro Val Leu Ser Ala Ala Ile Ala Thr Lys Met Ala
 200 205 210
 Gln Phe His Gly Met Glu Met Pro Phe Thr Lys Glu Pro His Trp
 215 220 225
 Leu Phe Gly Thr Met Glu Arg Tyr Leu Lys Gln Ile Gln Asp Leu
 230 235 240
 Pro Pro Thr Gly Leu Pro Glu Met Asn Leu Leu Glu Met Tyr Ser
 245 250 255
 Leu Lys Asp Glu Met Gly Asn Leu Arg Lys Leu Leu Glu Ser Thr
 260 265 270
 Pro Ser Pro Val Val Phe Cys His Asn Asp Ile Gln Glu Gly Asn

Ile Leu Leu Leu	275	280	285
Ser Glu Pro Glu Asn Ala Asp Ser Leu Met Leu			
	290	295	300
Val Asp Phe Glu Tyr Ser Ser Tyr Asn Tyr Arg Gly Phe Asp Ile			
	305	310	315
Gly Asn His Phe Cys Glu Trp Val Tyr Asp Tyr Thr His Glu Glu			
	320	325	330
Trp Pro Phe Tyr Lys Ala Arg Pro Thr Asp Tyr Pro Thr Gln Glu			
	335	340	345
Gln Gln Leu His Phe Ile Arg His Tyr Leu Ala Glu Ala Lys Lys			
	350	355	360
Gly Glu Thr Leu Ser Gln Glu Glu Gln Arg Lys Leu Glu Glu Asp			
	365	370	375
Leu Leu Val Glu Val Ser Arg Tyr Ala Leu Ala Ser His Phe Phe			
	380	385	390
Trp Gly Leu Trp Ser Ile Leu Gln Ala Ser Met Ser Thr Ile Glu			
	395	400	405
Phe Gly Tyr Leu Asp Tyr Ala Gln Ser Arg Phe Gln Phe Tyr Phe			
	410	415	420
Gln Gln Lys Gly Gln Leu Thr Ser Val His Ser Ser Ser			
	425	430	

<210> 20

<211> 527

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2098635

<400> 20

Met Ser Leu Cys Gly Ala Arg Ala Asn Ala Lys Met Met Ala Ala		
1	5	10
Tyr Asn Gly Gly Thr Ser Ala Ala Ala Ala Gly His His His His		
	20	25
His His His His Leu Pro His Leu Pro Pro Pro His Leu Leu His		
	35	40
His His His Pro Gln His His Leu His Pro Gly Ser Ala Ala Ala		
	50	55
Val His Pro Val Gln Gln His Thr Ser Ser Ala Ala Ala Ala Ala		
	65	70
Ala Ala Ala Ala Ala Ala Ala Ala Met Leu Asn Pro Gly Gln Gln		
	80	85
Gln Pro Tyr Phe Pro Ser Pro Ala Pro Gly Gln Ala Pro Gly Pro		
	95	100
Ala Ala Ala Ala Pro Ala Gln Val Gln Ala Ala Ala Ala Ala Thr		
	110	115
Val Lys Ala His His His Gln His Ser His His Pro Gln Gln Gln		
	125	130
Leu Asp Ile Glu Pro Asp Arg Pro Ile Gly Tyr Gly Ala Phe Gly		
	140	145
Val Val Trp Ser Val Thr Asp Pro Arg Asp Gly Lys Arg Val Ala		
	155	160
Leu Lys Lys Met Pro Asn Val Phe Gln Asn Leu Val Ser Cys Lys		

	170		175		180
Arg Val Phe Arg	Glu Leu Lys Met Leu Cys Phe Phe Lys His Asp				
	185		190		195
Asn Val Leu Ser	Ala Leu Asp Ile Leu Gln Pro Pro His Ile Asp				
	200		205		210
Tyr Phe Glu Glu	Ile Tyr Val Val Thr Glu Leu Met Gln Ser Asp				
	215		220		225
Leu His Lys Ile	Ile Val Ser Pro Gln Pro Leu Ser Ser Asp His				
	230		235		240
Val Lys Val Phe	Leu Tyr Gln Ile Leu Arg Gly Leu Lys Tyr Leu				
	245		250		255
His Ser Ala Cly	Ile Leu His Arg Asp Ile Lys Pro Gly Asn Leu				
	260		265		270
Leu Val Asn Ser	Asn Cys Val Leu Lys Ile Cys Asp Phe Gly Leu				
	275		280		285
Ala Arg Val Glu	Glu Leu Asp Glu Ser Arg His Met Thr Gln Glu				
	290		295		300
Val Val Thr Gln	Tyr Tyr Arg Ala Pro Glu Ile Leu Met Gly Ser				
	305		310		315
Arg His Tyr Ser	Asn Ala Ile Asp Ile Trp Ser Val Gly Cys Ile				
	320		325		330
Phe Ala Glu Leu	Leu Gly Arg Arg Ile Leu Phe Gln Ala Gln Ser				
	335		340		345
Pro Ile Gln Gln	Leu Asp Leu Ile Thr Asp Leu Leu Gly Thr Pro				
	350		355		360
Ser Leu Glu Ala	Met Arg Thr Ala Cys Glu Gly Ala Lys Ala His				
	365		370		375
Ile Leu Arg Gly	Pro His Lys Cln Pro Ser Leu Pro Val Leu Tyr				
	380		385		390
Thr Leu Ser Ser	Gln Ala Thr His Glu Ala Val His Leu Leu Cys				
	395		400		405
Arg Met Leu Val	Phe Asp Pro Ser Lys Arg Ile Ser Ala Lys Asp				
	410		415		420
Ala Leu Ala His	Pro Tyr Leu Asp Glu Gly Arg Leu Arg Tyr His				
	425		430		435
Thr Cys Met Cys	Lys Cys Cys Phe Ser Thr Ser Thr Gly Arg Val				
	440		445		450
Tyr Thr Ser Asp	Phe Glu Pro Val Thr Asn Pro Lys Phe Asp Asp				
	455		460		465
Thr Phe Glu Lys	Asn Leu Ser Ser Val Arg Gln Val Lys Glu Ile				
	470		475		480
Ile His Gln Phe	Ile Leu Glu Gln Gln Lys Gly Asn Arg Val Pro				
	485		490		495
Leu Cys Ile Asn	Pro Gln Ser Ala Ala Phe Lys Ser Phe Ile Ser				
	500		505		510
Ser Thr Val Ala	Gln Pro Ser Glu Met Pro Pro Ser Pro Leu Val				
	515		520		525
Trp Glu					

<210> 21

<211> 322

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2446646

<400> 21

```

Met Glu Gly Ile Ser Asn Phe Lys Thr Pro Ser Lys Leu Ser Glu
  1          5          10          15
Lys Lys Lys Ser Val Leu Cys Ser Thr Pro Thr Ile Asn Ile Pro
  20          25          30
Ala Ser Pro Phe Met Gln Lys Leu Gly Phe Gly Thr Gly Val Asn
  35          40          45
Val Tyr Leu Met Lys Arg Ser Pro Arg Gly Leu Ser His Ser Pro
  50          55          60
Trp Ala Val Lys Lys Ile Asn Pro Ile Cys Asn Asp His Tyr Arg
  65          70          75
Ser Val Tyr Gln Lys Arg Leu Met Asp Glu Ala Lys Ile Leu Lys
  80          85          90
Ser Leu His His Pro Asn Ile Val Gly Tyr Arg Ala Phe Thr Glu
  95          100         105
Ala Asn Asp Gly Ser Leu Cys Leu Ala Met Glu Tyr Gly Gly Glu
  110         115         120
Lys Ser Leu Asn Asp Leu Ile Glu Glu Arg Tyr Lys Ala Ser Gln
  125         130         135
Asp Pro Phe Pro Ala Ala Ile Ile Leu Lys Val Ala Leu Asn Met
  140         145         150
Ala Arg Gly Leu Lys Tyr Leu His Gln Glu Lys Lys Leu Leu His
  155         160         165
Gly Asp Ile Lys Ser Ser Asn Val Val Ile Lys Gly Asp Phe Glu
  170         175         180
Thr Ile Lys Ile Cys Asp Val Gly Val Ser Leu Pro Leu Asp Glu
  185         190         195
Asn Met Thr Val Thr Asp Pro Glu Ala Cys Tyr Ile Gly Thr Glu
  200         205         210
Pro Trp Lys Pro Lys Glu Ala Val Glu Glu Asn Gly Val Ile Thr
  215         220         225
Asp Lys Ala Asp Ile Phe Ala Phe Gly Leu Thr Leu Trp Glu Met
  230         235         240
Met Thr Leu Ser Ile Pro His Ile Asn Leu Ser Asn Asp Asp Asp
  245         250         255
Asp Glu Asp Lys Thr Phe Asp Glu Ser Asp Phe Asp Asp Glu Ala
  260         265         270
Tyr Tyr Ala Ala Leu Gly Thr Arg Pro Pro Ile Asn Met Glu Glu
  275         280         285
Leu Asp Glu Ser Tyr Gln Lys Val Ile Glu Leu Phe Ser Val Cys
  290         295         300
Thr Asn Glu Asp Pro Lys Asp Arg Pro Ser Ala Ala His Ile Val
  305         310         315
Glu Ala Leu Glu Thr Asp Val
  320

```

<210> 22

<211> 802

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2764911

<400> 22

Met	Glu	Glu	Glu	Gly	Gly	Ser	Ser	Gly	Gly	Ala	Ala	Gly	Thr	Ser	1	5	10	15
Ala	Asp	Gly	Gly	Asp	Gly	Gly	Glu	Gln	Leu	Leu	Thr	Val	Lys	His	20	25	30	
Glu	Leu	Arg	Thr	Ala	Asn	Leu	Thr	Gly	His	Ala	Glu	Lys	Val	Gly	35	40	45	
Ile	Glu	Asn	Phe	Glu	Leu	Leu	Lys	Val	Leu	Gly	Thr	Gly	Ala	Tyr	50	55	60	
Gly	Lys	Val	Phe	Leu	Val	Arg	Lys	Ile	Ser	Gly	His	Asp	Thr	Gly	65	70	75	
Lys	Leu	Tyr	Ala	Met	Lys	Val	Leu	Lys	Lys	Ala	Thr	Ile	Val	Gln	80	85	90	
Lys	Ala	Lys	Thr	Thr	Glu	His	Thr	Arg	Thr	Glu	Arg	Gln	Val	Leu	95	100	105	
Glu	His	Ile	Arg	Gln	Ser	Pro	Phe	Leu	Val	Thr	Leu	His	Tyr	Ala	110	115	120	
Phe	Gln	Thr	Glu	Thr	Lys	Leu	His	Leu	Ile	Leu	Asp	Tyr	Ile	Asn	125	130	135	
Gly	Gly	Glu	Leu	Phe	Thr	His	Leu	Ser	Gln	Arg	Glu	Arg	Phe	Thr	140	145	150	
Glu	His	Glu	Val	Gln	Ile	Tyr	Val	Gly	Glu	Ile	Val	Leu	Ala	Leu	155	160	165	
Glu	His	Leu	His	Lys	Leu	Gly	Ile	Ile	Tyr	Arg	Asp	Ile	Lys	Leu	170	175	180	
Glu	Asn	Ile	Leu	Leu	Asp	Ser	Asn	Gly	His	Val	Val	Leu	Thr	Asp	185	190	195	
Phe	Gly	Leu	Ser	Lys	Glu	Phe	Val	Ala	Asp	Glu	Thr	Glu	Arg	Ala	200	205	210	
Tyr	Ser	Phe	Cys	Gly	Thr	Ile	Glu	Tyr	Met	Ala	Pro	Asp	Ile	Val	215	220	225	
Arg	Gly	Gly	Asp	Ser	Gly	His	Asp	Lys	Ala	Val	Asp	Trp	Trp	Ser	230	235	240	
Leu	Gly	Val	Leu	Met	Tyr	Glu	Leu	Leu	Thr	Gly	Ala	Ser	Pro	Phe	245	250	255	
Thr	Val	Asp	Gly	Glu	Lys	Asn	Ser	Gln	Ala	Glu	Ile	Ser	Arg	Arg	260	265	270	
Ile	Leu	Lys	Ser	Glu	Pro	Pro	Tyr	Pro	Gln	Glu	Met	Ser	Ala	Leu	275	280	285	
Ala	Lys	Asp	Leu	Ile	Gln	Arg	Leu	Leu	Met	Lys	Asp	Pro	Lys	Lys	290	295	300	
Arg	Leu	Gly	Cys	Gly	Pro	Arg	Asp	Ala	Asp	Glu	Ile	Lys	Glu	His	305	310	315	
Leu	Phe	Phe	Gln	Lys	Ile	Asn	Trp	Asp	Asp	Leu	Ala	Ala	Lys	Lys	320	325	330	
Val	Pro	Ala	Pro	Phe	Lys	Pro	Val	Ile	Arg	Asp	Glu	Leu	Asp	Val	335	340	345	
Ser	Asn	Phe	Ala	Glu	Glu	Phe	Thr	Glu	Met	Asp	Pro	Thr	Tyr	Ser	350	355	360	
Pro	Ala	Ala	Leu	Pro	Gln	Ser	Ser	Glu	Lys	Leu	Phe	Gln	Gly	Tyr	365	370	375	
Ser	Phe	Val	Ala	Pro	Ser	Ile	Leu	Phe	Lys	Arg	Asn	Ala	Ala	Val	380	385	390	
Ile	Asp	Pro	Leu	Gln	Phe	His	Met	Gly	Val	Glu	Arg	Pro	Gly	Val				

	395		400		405
Thr Asn Val Ala Arg Ser Ala Met Met Lys Asp Ser Pro Phe Tyr					
	410		415		420
Gln His Tyr Asp Leu Asp Leu Lys Asp Lys Pro Leu Gly Glu Gly					
	425		430		435
Ser Phe Ser Ile Cys Arg Lys Cys Val His Lys Lys Ser Asn Gln					
	440		445		450
Ala Phe Ala Val Lys Ile Ile Ser Lys Arg Met Glu Ala Asn Thr					
	455		460		465
Gln Lys Glu Ile Thr Ala Leu Glu Leu Cys Glu Gly His Pro Asn					
	470		475		480
Ile Val Lys Leu His Glu Val Phe His Asp Gln Leu His Thr Phe					
	485		490		495
Leu Val Met Glu Leu Leu Asn Gly Gly Glu Leu Phe Glu Arg Ile					
	500		505		510
Lys Lys Lys Lys His Phe Ser Glu Thr Glu Ala Ser Tyr Ile Met					
	515		520		525
Arg Lys Leu Val Ser Ala Val Ser His Met His Asp Val Gly Val					
	530		535		540
Val His Arg Asp Leu Lys Pro Glu Asn Leu Leu Phe Thr Asp Glu					
	545		550		555
Asn Asp Asn Leu Glu Ile Lys Ile Ile Asp Phe Gly Phe Ala Arg					
	560		565		570
Leu Lys Pro Pro Asp Asn Gln Pro Leu Lys Thr Pro Cys Phe Thr					
	575		580		585
Leu His Tyr Ala Ala Pro Glu Leu Leu Asn Gln Asn Gly Tyr Asp					
	590		595		600
Glu Ser Cys Asp Leu Trp Ser Leu Gly Val Ile Leu Tyr Thr Met					
	605		610		615
Leu Ser Gly Gln Val Pro Phe Gln Ser His Asp Arg Ser Leu Thr					
	620		625		630
Cys Thr Ser Ala Val Glu Ile Met Lys Lys Ile Lys Lys Gly Asp					
	635		640		645
Phe Ser Phe Glu Gly Glu Ala Trp Lys Asn Val Ser Gln Glu Ala					
	650		655		660
Lys Asp Leu Ile Gln Gly Leu Leu Thr Val Asp Pro Asn Lys Arg					
	665		670		675
Leu Lys Met Ser Gly Leu Arg Tyr Asn Glu Trp Leu Gln Asp Gly					
	680		685		690
Ser Gln Leu Ser Ser Asn Pro Leu Met Thr Pro Asp Ile Leu Gly					
	695		700		705
Ser Ser Gly Ala Ala Val His Thr Cys Val Lys Ala Thr Phe His					
	710		715		720
Ala Phe Asn Lys Tyr Lys Arg Glu Gly Phe Cys Leu Gln Asn Val					
	725		730		735
Asp Lys Ala Pro Leu Ala Lys Arg Arg Lys Met Lys Lys Thr Ser					
	740		745		750
Thr Ser Thr Glu Thr Arg Ser Ser Ser Ser Glu Ser Ser His Ser					
	755		760		765
Ser Ser Ser His Ser His Gly Lys Thr Thr Pro Thr Lys Thr Leu					
	770		775		780
Gln Pro Ser Asn Pro Ala Asp Ser Asn Asn Pro Glu Thr Leu Phe					
	785		790		795
Gln Phe Ser Asp Ser Val Ala					
	800				

<210> 23
 <211> 641
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte Clone Number: 3013946

<400> 23
 Met Ala Thr Thr Val Thr Cys Thr Arg Phe Thr Asp Glu Tyr Gln
 1 5 10 15
 Leu Tyr Glu Asp Ile Gly Lys Gly Ala Phe Ser Val Val Arg Arg
 20 25 30
 Cys Val Lys Leu Cys Thr Gly His Glu Tyr Ala Ala Lys Ile Ile
 35 40 45
 Asn Thr Lys Lys Leu Ser Ala Arg Asp His Gln Lys Leu Glu Arg
 50 55 60
 Glu Ala Arg Ile Cys Arg Leu Leu Lys His Ser Asn Ile Val Arg
 65 70 75
 Leu His Asp Ser Ile Ser Glu Glu Gly Phe His Tyr Leu Val Phe
 80 85 90
 Asp Leu Val Thr Gly Gly Glu Leu Phe Glu Asp Ile Val Ala Arg
 95 100 105
 Glu Tyr Tyr Ser Glu Ala Asp Ala Ser His Cys Ile Gln Gln Ile
 110 115 120
 Leu Glu Ala Val Leu His Cys His Gln Met Gly Val Val His Arg
 125 130 135
 Asp Leu Lys Pro Glu Asn Leu Leu Leu Ala Ser Lys Cys Lys Gly
 140 145 150
 Ala Ala Val Lys Leu Ala Asp Phe Gly Leu Ala Ile Glu Val Gln
 155 160 165
 Gly Asp Gln Gln Ala Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr
 170 175 180
 Leu Ser Pro Glu Val Leu Arg Lys Glu Ala Tyr Gly Lys Pro Val
 185 190 195
 Asp Ile Trp Ala Cys Gly Val Ile Leu Tyr Ile Leu Leu Val Gly
 200 205 210
 Tyr Pro Pro Phe Trp Asp Glu Asp Gln His Lys Leu Tyr Gln Gln
 215 220 225
 Ile Lys Ala Gly Ala Tyr Asp Phe Pro Ser Pro Glu Trp Asp Thr
 230 235 240
 Val Thr Pro Glu Ala Lys Asn Leu Ile Asn Gln Met Leu Thr Ile
 245 250 255
 Asn Pro Ala Lys Arg Ile Thr Ala His Glu Ala Leu Lys His Pro
 260 265 270
 Trp Val Cys Gln Arg Ser Thr Val Ala Ser Met Met His Arg Gln
 275 280 285
 Glu Thr Val Glu Cys Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu
 290 295 300
 Lys Gly Ala Ile Leu Thr Thr Met Leu Ala Thr Arg Asn Phe Ser
 305 310 315
 Ala Lys Ser Leu Leu Asn Lys Lys Ala Asp Gly Val Lys Pro Gln
 320 325 330
 Thr Asn Ser Thr Lys Asn Ser Ala Ala Ala Thr Ser Pro Lys Gly
 335 340 345

Thr	Leu	Pro	Pro	Ala	Ala	Leu	Glu	Pro	Gln	Thr	Thr	Val	Ile	His	350	355	360
Asn	Pro	Val	Asp	Gly	Ile	Lys	Glu	Ser	Ser	Asp	Ser	Ala	Asn	Thr	365	370	375
Thr	Ile	Glu	Asp	Glu	Asp	Ala	Lys	Ala	Pro	Arg	Val	Pro	Asp	Ile	380	385	390
Leu	Ser	Ser	Val	Arg	Arg	Gly	Ser	Gly	Ala	Pro	Glu	Ala	Glu	Gly	395	400	405
Pro	Leu	Pro	Cys	Pro	Ser	Pro	Ala	Pro	Phe	Gly	Pro	Leu	Pro	Ala	410	415	420
Pro	Ser	Pro	Arg	Ile	Ser	Asp	Ile	Leu	Asn	Ser	Val	Arg	Arg	Gly	425	430	435
Ser	Gly	Thr	Pro	Glu	Ala	Glu	Gly	Pro	Leu	Ser	Ala	Gly	Pro	Pro	440	445	450
Pro	Cys	Leu	Ser	Pro	Ala	Leu	Leu	Gly	Pro	Leu	Ser	Ser	Pro	Ser	455	460	465
Pro	Arg	Ile	Ser	Asp	Ile	Leu	Asn	Ser	Val	Arg	Arg	Gly	Ser	Gly	470	475	480
Thr	Pro	Glu	Ala	Lys	Gly	Pro	Ser	Pro	Val	Gly	Pro	Pro	Pro	Cys	485	490	495
Pro	Ser	Pro	Thr	Ile	Pro	Gly	Pro	Leu	Pro	Thr	Pro	Ser	Arg	Lys	500	505	510
Gln	Glu	Ile	Ile	Lys	Thr	Thr	Glu	Gln	Leu	Ile	Glu	Ala	Val	Asn	515	520	525
Asn	Gly	Asp	Phe	Glu	Ala	Tyr	Ala	Lys	Ile	Cys	Asp	Pro	Gly	Leu	530	535	540
Thr	Ser	Phe	Glu	Pro	Glu	Ala	Leu	Gly	Asn	Leu	Val	Glu	Gly	Met	545	550	555
Asp	Phe	His	Arg	Phe	Tyr	Phe	Glu	Asn	Leu	Ile	Ala	Lys	Asn	Ser	560	565	570
Lys	Pro	Ile	His	Thr	Thr	Ile	Leu	Asn	Pro	His	Val	His	Val	Ile	575	580	585
Gly	Glu	Asp	Ala	Ala	Cys	Ile	Ala	Tyr	Ile	Arg	Leu	Thr	Gln	Tyr	590	595	600
Ile	Asp	Gly	Gln	Gly	Arg	Pro	Arg	Thr	Ser	Gln	Ser	Glu	Glu	Thr	605	610	615
Arg	Val	Trp	His	Arg	Arg	Asp	Gly	Lys	Trp	Gln	Asn	Val	His	Phe	620	625	630
His	Cys	Ser	Gly	Ala	Pro	Val	Ala	Pro	Leu	Gln					635	640	

<210> 24

<211> 588

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 067967

<400> 24

Met	Gly	Gly	Thr	Ala	Arg	Gly	Pro	Gly	Arg	Lys	Asp	Ala	Gly	Pro	1	5	10	15
Pro	Gly	Ala	Gly	Leu	Pro	Pro	Gln	Gln	Arg	Arg	Leu	Gly	Asp	Gly	20	25	30	
Val	Tyr	Asp	Thr	Phe	Met	Met	Ile	Asp	Glu	Thr	Lys	Cys	Pro	Pro				

	35		40		45
Cys Ser Asn Val	Leu Cys Asn Pro Ser	Glu Pro Pro Ser Pro	Arg		
	50		55		60
Arg Leu Asn Met	Thr Thr Glu Gln Phe	Thr Gly Asp His Thr	Gln		
	65		70		75
His Phe Leu Asp	Gly Gly Glu Met Lys	Val Glu Gln Leu Phe	Gln		
	80		85		90
Glu Phe Gly Asn	Arg Lys Ser Asn Thr	Ile Gln Ser Asp Gly	Ile		
	95		100		105
Ser Asp Ser Glu	Lys Cys Ser Pro Thr	Val Ser Gln Gly Lys	Ser		
	110		115		120
Ser Asp Cys Leu	Asn Thr Val Lys Ser	Asn Ser Ser Ser Lys	Ala		
	125		130		135
Pro Lys Val Val	Pro Leu Thr Pro Glu	Gln Ala Leu Lys Gln	Tyr		
	140		145		150
Lys His His Leu	Thr Ala Tyr Glu Lys	Leu Glu Ile Ile Asn	Tyr		
	155		160		165
Pro Glu Ile Tyr	Phe Val Gly Pro Asn	Ala Lys Lys Arg His	Gly		
	170		175		180
Val Ile Gly Gly	Pro Asn Asn Gly Gly	Tyr Asp Asp Ala Asp	Gly		
	185		190		195
Ala Tyr Ile His	Val Pro Arg Asp His	Leu Ala Tyr Arg Tyr	Glu		
	200		205		210
Val Leu Lys Ile	Ile Gly Lys Gly Ser	Phe Gly Gln Val Ala	Arg		
	215		220		225
Val Tyr Asp His	Lys Leu Arg Gln Tyr	Val Ala Leu Lys Met	Val		
	230		235		240
Arg Asn Glu Lys	Arg Phe His Arg Gln	Ala Ala Glu Glu Ile	Arg		
	245		250		255
Ile Leu Glu His	Leu Lys Lys Gln Asp	Lys Thr Gly Ser Met	Asn		
	260		265		270
Val Ile His Met	Leu Glu Ser Phe Thr	Phe Arg Asn His Val	Cys		
	275		280		285
Met Ala Phe Glu	Leu Leu Ser Ile Asp	Leu Tyr Glu Leu Ile	Lys		
	290		295		300
Lys Asn Lys Phe	Gln Gly Phe Ser Val	Gln Leu Val Arg Lys	Phe		
	305		310		315
Ala Gln Ser Ile	Leu Gln Ser Leu Asp	Ala Leu His Lys Asn	Lys		
	320		325		330
Ile Ile His Cys	Asp Leu Lys Pro Glu	Asn Ile Leu Leu Lys	His		
	335		340		345
His Gly Arg Ser	Ser Thr Lys Val Ile	Asp Phe Gly Ser Ser	Cys		
	350		355		360
Phe Glu Tyr Gln	Lys Leu Tyr Thr Tyr	Ile Gln Ser Arg Phe	Tyr		
	365		370		375
Arg Ala Pro Glu	Ile Ile Leu Gly Ser	Arg Tyr Ser Thr Pro	Ile		
	380		385		390
Asp Ile Trp Ser	Phe Gly Cys Ile Leu	Ala Glu Leu Leu Thr	Gly		
	395		400		405
Gln Pro Leu Phe	Pro Gly Glu Asp Glu	Gly Asp Gln Leu Ala	Cys		
	410		415		420
Met Met Glu Leu	Leu Gly Met Pro Pro	Pro Lys Leu Leu Glu	Gln		
	425		430		435
Ser Lys Arg Ala	Lys Tyr Phe Ile Asn	Ser Lys Gly Ile Pro	Arg		
	440		445		450
Tyr Cys Ser Val	Thr Thr Gln Ala Asp	Gly Arg Val Val Leu	Val		

	455		460		465
Gly Gly Arg Ser	Arg Arg Gly Lys Lys	Arg Gly Pro Pro Gly Ser			
	470		475		480
Lys Asp Trp Gly	Thr Ala Leu Lys Gly	Cys Asp Asp Tyr Leu Phe			
	485		490		495
Ile Glu Phe Leu	Lys Arg Cys Leu His	Trp Asp Pro Ser Ala Arg			
	500		505		510
Leu Thr Pro Ala	Gln Ala Leu Arg His	Pro Trp Ile Ser Lys Ser			
	515		520		525
Val Pro Arg Pro	Leu Thr Thr Ile Asp	Lys Val Ser Gly Lys Arg			
	530		535		540
Val Val Asn Pro	Ala Ser Ala Phe Gln	Gly Leu Gly Ser Lys Leu			
	545		550		555
Pro Pro Val Val	Gly Ile Ala Asn Lys	Leu Lys Ala Asn Leu Met			
	560		565		570
Ser Glu Thr Asn	Gly Ser Ile Pro Leu	Cys Ser Val Leu Pro Lys			
	575		580		585
Leu Ile Ser					

<110> 25

<111> 389

<112> PRT

<113> Homo sapiens

<120>

<121> misc_feature

<123> Incyte Clone Number: 346275

<400> 25

Met Ser Asp Val	Cys Ser Ser Gln Arg	Ala Glu His Glu His	Leu
1	5	10	15
Pro Gly Leu Val	Pro Pro Ser Gly Met	Gly Val Arg Lys	Gly
	20	25	30
Ser Ser Pro Leu	Lys Ser His Pro Cys Arg	Glu Lys Ser Val	Ser
	35	40	45
Asn Arg Arg Ser	Gly Lys Thr Ile Val Arg	Ser Ala Val Glu	Glu
	50	55	60
Val Arg Thr Ala	Gly Leu Phe Arg Ser Gly	Phe Ser Glu Glu	Lys
	65	70	75
Ala Thr Gly Lys	Leu Phe Ala Val Lys Cys	Ile Pro Lys Lys	Ala
	80	85	90
Leu Lys Gly Lys	Glu Ser Ser Ile Glu Asn	Glu Ile Ala Val	Leu
	95	100	105
Arg Lys Ile Lys	His Glu Asn Ile Val Ala	Leu Glu Asp Ile	Tyr
	110	115	120
Glu Ser Pro Asn	His Leu Tyr Leu Val Met	Gln Leu Val Ser	Gly
	125	130	135
Gly Glu Leu Phe	Asp Arg Ile Val Glu Lys	Gly Phe Tyr Thr	Glu
	140	145	150
Lys Asp Ala Ser	Thr Leu Ile Arg Gln Val	Leu Asp Ala Val	Tyr
	155	160	165
Tyr Leu His Arg	Met Gly Ile Val His Arg	Asp Leu Lys Pro	Glu
	170	175	180
Asn Leu Leu Tyr	Tyr Ser Gln Asp Glu Glu	Ser Lys Ile Met	Ile
	185	190	195

Ser Asp Phe Gly Leu Ser Lys Met Glu Gly Lys Gly Asp Val Met	200	205	210
Ser Thr Ala Cys Gly Thr Pro Gly Tyr Val Ala Pro Glu Val Leu	215	220	225
Ala Gln Lys Pro Tyr Ser Lys Ala Val Asp Cys Trp Ser Ile Gly	230	235	240
Val Ile Ala Tyr Ile Leu Leu Cys Gly Tyr Pro Pro Phe Tyr Asp	245	250	255
Glu Asn Asp Ser Lys Leu Phe Glu Gln Ile Leu Lys Ala Glu Tyr	260	265	270
Glu Phe Asp Ser Pro Tyr Trp Asp Asp Ile Ser Asp Ser Ala Lys	275	280	285
Asp Phe Ile Arg Asn Leu Met Glu Lys Asp Pro Asn Lys Arg Tyr	290	295	300
Thr Cys Glu Gln Ala Ala Arg His Pro Trp Ile Ala Gly Asp Thr	305	310	315
Ala Leu Asn Lys Asn Ile His Glu Ser Val Ser Ala Gln Ile Arg	320	325	330
Lys Asn Phe Ala Lys Ser Lys Trp Arg Gln Ala Phe Asn Ala Thr	335	340	345
Ala Val Val Arg His Met Arg Lys Leu His Leu Gly Ser Ser Leu	350	355	360
Asp Ser Ser Asn Ala Ser Val Ser Ser Ser Leu Ser Leu Ala Ser	365	370	375
Gln Lys Asp Cys Ala Tyr Val Ala Lys Pro Glu Ser Leu Ser	380	385	

<210> 26

<211> 343

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 283746

<400> 26

Met Ile Gly Glu Glu Ala Met Ile Asn Tyr Glu Asn Phe Leu Lys	1	5	10	15
Val Gly Glu Lys Ala Gly Ala Lys Cys Lys Gln Phe Phe Thr Ala	20	25	30	
Lys Val Phe Ala Lys Leu Leu His Thr Asp Ser Tyr Gly Arg Ile	35	40	45	
Ser Ile Met Gln Phe Phe Asn Tyr Val Met Arg Lys Val Trp Leu	50	55	60	
His Gln Thr Arg Ile Gly Leu Ser Leu Tyr Asp Val Ala Gly Gln	65	70	75	
Gly Tyr Leu Arg Glu Ser Asp Leu Glu Asn Tyr Ile Leu Glu Leu	80	85	90	
Ile Pro Thr Leu Pro Gln Leu Asp Gly Leu Glu Lys Ser Phe Tyr	95	100	105	
Ser Phe Tyr Val Cys Thr Ala Val Arg Lys Phe Phe Phe Phe Leu	110	115	120	
Asp Pro Leu Arg Thr Gly Lys Ile Lys Ile Gln Asp Ile Leu Ala	125	130	135	

Cys	Ser	Phe	Leu	Asp	Asp	Leu	Leu	Glu	Leu	Arg	Asp	Glu	Glu	Leu
				140					145					150
Ser	Lys	Glu	Ser	Gln	Glu	Thr	Asn	Trp	Phe	Ser	Ala	Pro	Ser	Ala
				155					160					165
Leu	Arg	Val	Tyr	Gly	Gln	Tyr	Leu	Asn	Leu	Asp	Lys	Asp	His	Asn
				170					175					180
Gly	Met	Leu	Ser	Lys	Glu	Glu	Leu	Ser	Arg	Tyr	Gly	Thr	Ala	Thr
				185					190					195
Met	Thr	Asn	Val	Phe	Leu	Asp	Arg	Val	Phe	Gln	Glu	Cys	Leu	Thr
				200					205					210
Tyr	Asp	Gly	Glu	Met	Asp	Tyr	Lys	Thr	Tyr	Leu	Asp	Phe	Val	Leu
				215					220					225
Ala	Leu	Glu	Asn	Arg	Lys	Glu	Pro	Ala	Ala	Leu	Gln	Tyr	Ile	Phe
				230					235					240
Lys	Leu	Leu	Asp	Ile	Glu	Asn	Lys	Gly	Tyr	Leu	Asn	Val	Phe	Ser
				245					250					255
Leu	Asn	Tyr	Phe	Phe	Arg	Ala	Ile	Gln	Glu	Leu	Met	Lys	Ile	His
				260					265					270
Gly	Gln	Asp	Pro	Val	Ser	Phe	Gln	Asp	Val	Lys	Asp	Glu	Ile	Phe
				275					280					285
Asp	Met	Val	Lys	Pro	Lys	Asp	Pro	Leu	Lys	Ile	Ser	Leu	Gln	Asp
				290					295					300
Leu	Ile	Asn	Ser	Asn	Gln	Gly	Asp	Thr	Val	Thr	Thr	Ile	Leu	Ile
				305					310					315
Asp	Leu	Asn	Gly	Phe	Trp	Thr	Tyr	Glu	Asn	Arg	Glu	Ala	Leu	Val
				320					325					330
Ala	Asn	Asp	Ser	Glu	Asn	Ser	Ala	Asp	Leu	Asp	Asp	Thr		
				335					340					

<210> 27

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2696537

<400> 27

Met	Gly	Asn	Gly	Met	Asn	Lys	Ile	Leu	Pro	Gly	Leu	Tyr	Ile	Gly
1				5					10					15
Asn	Phe	Lys	Asp	Ala	Arg	Asp	Ala	Glu	Gln	Leu	Ser	Lys	Asn	Lys
				20					25					30
Val	Thr	His	Ile	Leu	Ser	Val	His	Asp	Ser	Ala	Arg	Pro	Met	Leu
				35					40					45
Glu	Gly	Val	Lys	Tyr	Leu	Cys	Ile	Pro	Ala	Ala	Asp	Ser	Pro	Ser
				50					55					60
Gln	Asn	Leu	Thr	Arg	His	Phe	Lys	Glu	Ser	Ile	Lys	Phe	Ile	His
				65					70					75
Glu	Cys	Arg	Leu	Arg	Gly	Glu	Ser	Cys	Leu	Val	His	Cys	Leu	Ala
				80					85					90
Gly	Val	Ser	Arg	Ser	Val	Thr	Leu	Val	Ile	Ala	Tyr	Ile	Met	Thr
				95					100					105
Val	Thr	Asp	Phe	Gly	Trp	Glu	Asp	Ala	Leu	His	Thr	Val	Arg	Ala
				110					115					120

Gly	Arg	Ser	Cys	Ala	Asn	Pro	Asn	Val	Gly	Phe	Gln	Arg	Gln	Leu
				125					130					135
Gln	Glu	Phe	Glu	Lys	His	Glu	Val	His	Gln	Tyr	Arg	Gln	Trp	Leu
				140					145					150
Lys	Glu	Glu	Tyr	Gly	Glu	Ser	Pro	Leu	Gln	Asp	Ala	Glu	Glu	Ala
				155					160					165
Lys	Asn	Ile	Leu	Ala	Ala	Pro	Gly	Ile	Leu	Lys	Phe	Trp	Ala	Phe
				170					175					180
Leu	Arg	Arg	Leu											

<210> 29

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 619292

<400> 29

Met	Gly	Leu	Ile	Asp	Gly	Met	His	Thr	His	Leu	Gly	Ala	Pro	Gly
1				5					10					15
Leu	Tyr	Ile	Gln	Thr	Leu	Leu	Pro	Gly	Ser	Pro	Ala	Ala	Ala	Asp
				20					25					30
Gly	Arg	Leu	Ser	Leu	Gly	Asp	Arg	Ile	Leu	Glu	Val	Asn	Gly	Ser
				35					40					45
Ser	Leu	Leu	Gly	Leu	Gly	Tyr	Leu	Arg	Ala	Val	Asp	Leu	Ile	Arg
				50					55					60
His	Gly	Gly	Lys	Lys	Met	Arg	Phe	Leu	Val	Ala	Lys	Ser	Asp	Val
				65					70					75
Gly	Lys	Gln	Pro	Arg	Ser	Ile	Ser	Ala	Arg	Pro	Leu	Ser	Arg	
				80					85					90
Gly	Ala	Ala	Arg	Thr	Pro	Pro	Gln	Ala	Arg	His	Pro	Val	Pro	Pro
				95					100					105
Gly	Asp	Thr	Gly	Leu	Pro	Pro	Ala	Phe	Val	Pro	Val	Leu		
				110					115					

<210> 30

<211> 356

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2054049

<400> 30

Met	Val	Gly	Val	Ser	Gly	Lys	Arg	Ser	Lys	Glu	Asp	Glu	Lys	Tyr
1				5					10					15
Leu	Gln	Ala	Ile	Met	Asp	Ser	Asn	Ala	Gln	Ser	His	Lys	Ile	Phe
				20					25					30
Ile	Phe	Asp	Ala	Arg	Pro	Ser	Val	Asn	Ala	Val	Ala	Asn	Lys	Ala
				35					40					45
Lys	Gly	Gly	Gly	Tyr	Glu	Ser	Glu	Asp	Ala	Tyr	Gln	Asn	Ala	Glu

	50		55		60
Leu Val Phe Leu	Asp Ile His Asn Ile	His Val Met Arg Glu Ser			
	65		70		75
Leu Arg Lys Leu	Lys Glu Ile Val Tyr Pro Asn Ile Glu Glu Thr				
	80		85		90
His Trp Leu Ser	Asn Leu Glu Ser Thr His Trp Leu Glu His Ile				
	95		100		105
Lys Leu Ile Leu	Ala Gly Ala Leu Arg Ile Ala Asp Lys Val Glu				
	110		115		120
Ser Gly Lys Thr	Ser Val Val Val His Cys Ser Asp Gly Trp Asp				
	125		130		135
Arg Thr Ala Gln	Leu Thr Ser Leu Ala Met Leu Met Leu Asp Gly				
	140		145		150
Tyr Tyr Arg Thr	Ile Arg Gly Phe Glu Val Leu Val Glu Lys Glu				
	155		160		165
Trp Leu Ser Phe	Gly His Arg Phe Gln Leu Arg Val Gly His Gly				
	170		175		180
Asp Lys Asn His	Ala Asp Ala Asp Arg Ser Pro Val Phe Leu Gln				
	185		190		195
Phe Ile Asp Cys	Val Trp Gln Met Thr Arg Gln Phe Pro Thr Ala				
	200		205		210
Phe Glu Phe Asn	Glu Tyr Phe Leu Ile Thr Ile Leu Asp His Leu				
	215		220		225
Tyr Ser Cys Leu	Phe Gly Thr Phe Leu Cys Asn Ser Glu Gln Gln				
	230		235		240
Arg Gly Lys Glu	Asn Leu Pro Lys Arg Thr Val Ser Leu Trp Ser				
	245		250		255
Tyr Ile Asn Ser	Gln Leu Glu Asp Phe Thr Asn Pro Leu Tyr Gly				
	260		265		270
Ser Tyr Ser Asn	His Val Leu Tyr Pro Val Ala Ser Met Arg His				
	275		280		285
Leu Glu Leu Trp	Val Gly Tyr Tyr Ile Arg Trp Asn Pro Arg Met				
	290		295		300
Lys Pro Gln Glu	Pro Ile His Asn Arg Tyr Lys Glu Leu Leu Ala				
	305		310		315
Lys Arg Ala Glu	Leu Gln Lys Lys Val Glu Glu Leu Gln Arg Glu				
	320		325		330
Ile Ser Asn Arg	Ser Thr Ser Ser Ser Glu Arg Ala Ser Ser Pro				
	335		340		345
Ala Gln Cys Val	Thr Pro Val Gln Thr Val Val				
	350		355		

<210> 31

<211> 453

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 234391)

<400> 31

Met Ala Gly Ala	Gly Gly Phe Gly Cys	Pro Ala Gly Gly Asn Asp
1	5	10 15
Phe Gln Trp Cys	Phe Ser Gln Val Lys Gly Ala	Ile Asp Glu Asp

	20		25		30
Val Ala Glu Ala Asp	Ile Ile Ser Thr	Val Glu Phe Asn Tyr	Ser		
	35		40		45
Gly Asp Leu Leu Ala	Thr Gly Asp Lys	Gly Gly Arg Val Val	Ile		
	50		55		60
Phe Gln Arg Glu Gln	Glu Asn Lys Ser	Arg Pro His Ser Arg	Gly		
	65		70		75
Glu Tyr Asn Val Tyr	Ser Thr Phe Gln	Ser His Glu Pro Glu	Phe		
	80		85		90
Asp Tyr Leu Lys Ser	Leu Glu Ile Glu	Glu Lys Ile Asn Lys	Ile		
	95		100		105
Arg Trp Leu Pro Gln	Gln Asn Ala Ala	His Phe Leu Leu Ser	Thr		
	110		115		120
Asn Asp Lys Thr Ile	Lys Leu Trp Lys	Ile Ser Glu Arg Asp	Lys		
	125		130		135
Arg Ala Glu Gly Tyr	Asn Leu Lys Asp	Glu Asp Gly Arg Leu	Arg		
	140		145		150
Asp Pro Phe Arg Ile	Thr Ala Leu Arg	Val Pro Ile Leu Lys	Pro		
	155		160		165
Met Asp Leu Met Val	Glu Ala Ser Pro	Arg Arg Ile Phe Ala	Asn		
	170		175		180
Ala His Thr Tyr His	Ile Asn Ser Ile	Ser Val Asn Ser Asp	His		
	185		190		195
Glu Thr Tyr Leu Ser	Ala Asp Asp Leu	Arg Ile Asn Leu Trp	His		
	200		205		210
Leu Glu Ile Thr Asp	Arg Ser Phe Asn	Ile Val Asp Ile Lys	Pro		
	215		220		225
Ala Asn Met Glu Glu	Leu Thr Glu Val	Ile Thr Ala Ala Glu	Phe		
	230		235		240
His Pro His Gln Cys	Asn Val Phe Val	Tyr Ser Ser Ser Lys	Gly		
	245		250		255
Thr Ile Arg Leu Cys	Asp Met Arg Ser	Ser Ala Leu Cys Asp	Arg		
	260		265		270
His Ser Lys Phe Phe	Glu Glu Pro Glu	Asp Pro Ser Ser Arg	Ser		
	275		280		285
Phe Phe Ser Glu Ile	Ile Ser Ser Ile	Ser Asp Val Lys Phe	Ser		
	290		295		300
His Ser Gly Arg Tyr	Met Met Thr Arg	Asp Tyr Leu Ser Val	Lys		
	305		310		315
Val Trp Asp Leu Asn	Met Glu Ser Arg	Pro Val Glu Thr His	Gln		
	320		325		330
Val His Glu Tyr Leu	Arg Ser Lys Leu	Cys Ser Leu Tyr Glu	Asn		
	335		340		345
Asp Cys Ile Phe Asp	Lys Phe Glu Cys	Cys Trp Asn Gly Ser	Asp		
	350		355		360
Ser Ala Ile Met Thr	Gly Ser Tyr Asn	Asn Phe Phe Arg Met	Phe		
	365		370		375
Asp Arg Asp Thr Arg	Arg Asp Val Thr	Leu Glu Ala Ser Arg	Glu		
	380		385		390
Ser Ser Lys Pro Arg	Ala Ser Leu Lys	Pro Arg Lys Val Cys	Thr		
	395		400		405
Gly Gly Lys Arg Arg	Lys Asp Glu Ile	Ser Val Asp Ser Leu	Asp		
	410		415		420
Phe Asn Lys Lys Ile	Leu His Thr Ala	Trp His Pro Val Asp	Asn		
	425		430		435
Val Ile Ala Val Ala	Ala Thr Asn Asn	Leu Tyr Ile Phe Gln	Asp		

440

445

450

Lys Ile Asn

<210> 32

<211> 1321

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 132240

<400> 32

```

cttttcctgg aatttctata atggaaagtc cattagaaaag tcagccctta gattcagata 60
gaagcatcaa agaatcctct tttgaagaat caaatattga agatccactt attgtaacac 120
cagattgcc aaaaaagacc tcacaaaaag gtgtcgagaa cctgctgta caagagagta 180
accaaaaaat gttaggtcct cctttggagg tgcgaaaaac gttagcctct aaaagaaatg 240
ctgttgcttt tcgaagtttt aacagtcata ttaatgcata caataactca gaaccatcca 300
gaatgaacat gacttcttta gatgcaatgg atatttcgtg tgcctacagt ggttcatatc 360
ccatggctat aacccttact caaaaaagaa gatcctgtat gccacatcag accccaaatc 420
agatcaagtc gggaaactcca taccgaactc cgaagagtgt gagaagaggg gtggcccccg 480
ttgatgatgg gcgaattcta ggaacccag actaccttgc acctgagctg ttactaggca 540
gggcccattg tcctgcggta gactggtggg cacttggagt ttgcttggtt gaatttctaa 600
caggaaattcc cctttcaat gatgaaacac cacaacaagt attccagaat attctgaaaa 660
gagatatccc ttggccagaa ggtgaagaaa agttatctga taatgctcaa agtgcagtag 720
aaatactttt aaccattgat gatacaaaag gagctggaat gaaagagcta aaacgtcata 780
ctctcttcag tgatgtggac tgggaaaaac tgcagcatca gactatgcct ttcaccccc 840
agccagatga tgaacacagat acctcctatt ttgaagccag gaatactgct cagcacctga 900
ctgtatctgg atttagtctg tagcacaaaa attttcttt tagtctagcc ttgtgttata 960
gaatgaactt gcataattat atactcctta atactagatt gatctaaggg ggaaagatca 1020
ttatttaacc tagttcaatg tgcctttaat gtacgttaca gctttcacag agttaaaagg 1080
ctgaaaggaa tatagtcagt aatttatctt aacctcaaaa ctgtatataa atcttcaaaag 1140
cttttttcat ttatttattt tgtttattgc actttatgaa aactgaagca tcaataaaat 1200
tagaggacac taaaaaaaaa a 1221

```

<210> 33

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2130116

<400> 33

```

tggccaggct gggtcacagc gcgcgatggc agctcagcgg ctgggcaagc gcgtgctgag 60
caagctgcag tctccatcgc gggcccgccg gccagggggc agtcccgggg ggatgcagaa 120
gcggcacgcg gcgctcaccg tcaagtatga ccggcgggag ctgcagcggc ggctggacgt 180
ggayaagtgg atcgacgggc gcctggagga gctgtaccgc ggcattggag cagacatgcc 240
cgatgagatc aacattgatg aattgttggg gttagagagt gaagaggaga gaagccggaa 300
aatccagyya ctctgaagt catgtgggaa acctgtcgag gacttcatac aggagctgct 360
ggcaaagctt caaggcctcc acaggcagcc cgccctccgc cagccaagcc cctcccacga 420
cggcagcctc agccccctcc aggaccgggc ccggactgct cacccttgac cctcttgac 480
tctccctgcc ccccggaagc cgcccagctt gcttgtgtat aagttgtatt taatggattc 540
tt 542

```


<210> 34

<211> 2778

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 2548, 2557, 2645, 2722, 2557, 2762, 2765

<223> Incyte Clone Number: 2197671

<400> 34

```

cgcgggatcgt cgcgggccccg ccgtcccgtc ccaggaagtg gccgtcctga gcgccatggc 60
tcactccccg gtgcagtcgg gcctgccccg catgcagaac ctaaaggcag acccagaaga 120
gcttttttaca aaactagaga aaattgggaa gggcctcttt ggagagggtg tcaaaggcat 180
tgacaatcgg actcagaaaag tggttgccat aaagatcatt gatctggaag aagctgaaga 240
trjagatagag gacattcaac aagaaatcac agtgrtgagt cagtgtgaca gtccatatgt 300
aaccaaatat tatggatcct atctgaagga tacaaaatta tggataataa tggaatatcl 360
tgrtgaggagg tccgcactag atctattaga acctggccga ttagatgaaa cccagatcgc 420
tactatatta agagaaatac tgaaaggact cgattatctc cattcggaga agaaaatcca 480
cagagacatt aaagcggcca acgtcctgct gtctgagcat ggcgagggtg agctggcgga 540
ctttggcgtg gctggccagc tgacagacac ccagatcaaa aggaacacct tcgtgggcac 600
cccattctgg atggcacccg aggtcatcaa acagtcggcc tatgactcga aggcagacat 660
ctggtcctctg ggcataacag ctattgaact tgcaagaggg gaaccacctc attccgagct 720
gcaccccatg aaagttttat tcttcattcc aaagaacaaac ccaccgacgt tgggaaggaaa 780
ctacagtaaa cccctcaagg agtttgtgga ggctgtttt aataaggagc cgagcttttag 840
accactgct aaggagttat tgaagcacia gtttatacta cgcaatgcaa agaaaacttc 900
ctacttgacc gagctcatcg acaggtacaa gagatggaag gccgagcaga gccatgacga 960
ctcgagctcc gaggattccg acgcggaaac agatggccaa gcctcggggg gcagtgattc 1020
tggggactgg atcttcacaa tccgagaaaa agatcccaa aatctcgaga atggagctct 1080
tcagccatcg gacttggaca gaaataagat gaaagacatc ccaaagaggc ctttctctca 1140
gtgttttatc acaattattt ctctctgtgt tgcagagttg aaggagaaga gccaggcgtg 1200
cggagggaac ttggggtcca ttgaagagct gcgaggggcc atctacctag cggaggaggc 1260
gtgccctggc atctccgaca ccatggtggc ccagctcgtg cagcggctcc agagatactc 1320
tctaagtggg ggaggaaact catccactg aaattccttt gccatttggg gttttgtttt 1380
tctttttttt cttcttcac ctcctccttt tttaaaagtc aacgagagcc ttcgctgact 1440
ccaccgaaga ggtgcgccac tgggagccac ccagtgcca ggcccccgtc cagggaacaca 1500
cacagtcttc actgtgctgc agccagatga agtctctcag atgggtgggg aggtcagct 1560
ccttccagcg atcattttat tttattttat tacttttgtt tttaatttta accatagtgc 1620
acatattcca ggaaagtgtc tttaaaaaca aaaacaaacc ctgaaatgta tatttgggat 1680
tatgataagg caactaaaga catgaaacct caggtatcct gctttaagtt gataactccc 1740
tctgggagct ggagaatcgc tctggtggat ggggtgtacag atttgatat atgtgcattt 1800
ttacggaaac ctttccggcg tgcataagga atcactgtgt acaaaactggc caagtgcctc 1860
tgtagataac gtcagtggag taaatattcg acaggccata acttgagtct attgccttgc 1920
ctttattaca tgtacatttt gaattctgtg accagtgatt tgggttttat tttgtatttg 1980
cagggtttgt cattaaatat taatgcccc ctcttacaga aacctcctat ttgtacctca 2040
acaaatgcaa attttccccc tttgccctac gccccctttg gtacacctag aggttgattt 2100
cctttttcat cgtgggtact atttcttagt gttttaaatt ggaacatata ttgcctcatg 2160
aagcttttaa ttataatttt cagtttctcc ccatgaagcg ctctcgtctg acatttgttt 2220
ggaatcgtgc cactgctggg ctgcgccaga tgtaccgtcc tttccaatac gattttctgt 2280
tgaccttgt agtggattct gcataatc tttccacct aaaaatgtct gaatgcttac 2340
acaaataaat tttataacac gcttattttg catactcctt gaaatgtgac tcttcagagg 2400
acagggtacc tgcgtgttat gtgtggcgt gcgtgtgtac tcgtggctgt gtgtgtgtga 2460
ttagacactt tgggaagactc caggggagaag ttccaggggc tggagctgcc gagtgccag 2520

```

```

gtcagcgcgc tgggctgctt gcgcaatngc tcaccngat gatgcattgg aggttgetga 2580
cctgtgcgat tgcgtagcgc gttgccaggg accttaaggg gttattttgc ttccctggga 2640
ggggnccat gtttctaggg aagcagccat gtgtctaatt ttctggggtt gctgtgggga 2700
cctgattggg ggagggggaa anctttgggg ttcttgaggt gggaggggtc gtgccancaa 2760
tnttncctgg taaaaaag

```

<210> 35

<211> 1424

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2594943

<400> 35

```

ggctcagcct ccgacccagg tgggtctggag cctgcgcggga gagtgggtggc atctgagagg 60
ctggctcgtg actgtggttg ggggaggttg gagctgtttt aaccgtgtgc cccctctcct 120
gtgccggcgt gggcatcccc cggggcagtg gaacgcgggc gtcctccag ctcccgagtc 180
cagccagcct gggcgcgggg cgccgcggcc gagacacccg aggagtccgt tccctccctgg 240
ttactgtggac tgtggagctg gtctcttctg gtcacgcgcc gtgcggaggt tgaagcgta 300
ctgcggaggt cgcaccaggg cgtgaggagg aggaggaaagg gcatgagccg agcttgagga 360
atccgtgtct caaactctac actcaagggt ggccttcggg taggggtgaag atccctgtct 420
tttctcctag ttccacaccc tgggtgtgggt tactgggtgc aggatgaact gtcgtctcga 480
ggtgctggag gtgtcgggtg aggggcggca ggtggaggag gccatgctgg ctgtgctgca 540
cacggtgctt ctgcaccgca gcacaggcaa gttccactac aagaaggagg gcacctactc 600
cattggcacc gtgggcaccc aggatgttga ctgtgacttc atcgacttca cttatgtgcg 660
tgtctcttct gaggaactgg atcgtgcctt gcgcaagggt gttggggagt tcaaggatgc 720
actgcgcaac tctggtggcg atgggctggg gcagatgtcc ttggagttct accagaagaa 780
gaagtctcgc tggccattct cagacgagtg catcccatgg gaagtgtgga cgggtcaagg 840
gcatgtggta gccctggcca cggagcagga gcggcagatc tgccgggaga aggtgggtga 900
gaaactctgc gagaagatca tcaacatcgt ggaggtgatg aatcggcatg agtacttgcc 960
caagatgccc acacagtcgg aggtggataa cgtgtttgac acaggcttgc gggacgtgca 1020
gccctacctg tacaagatct ccttcagat cactgatgcc ctgggcacct cagtcaccac 1080
caccatgcgc aggtctcatca aagacacccct tgcctctga gcgtcgtctg atctctggga 1140
gtccttggat ggctcccaga ccttggcttt tgggaattgc acttttgggc ctttgggctc 1200
tggaacctgc tctgggtcat tggtagact tgggaaggggc agcccccgct ggcttcttgg 1260
ttttgtggtt gccagcctca ggtcatcctt ttaatctttg ctgatgggtc agtcctgcct 1320
ctactgtctc tccatagccc tgggtgggtc ccccttcttt ctccactgta cagaagagcc 1380
accactggga tggggaataa agttgagaac atgaaaaaaaa aaaa 1424

```

<210> 36

<211> 1839

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1513871

<400> 36

```

cctcctctctc ggccagctca ggttgagct tctctgggga actgtcacc ttccgggagc 60
aggggaagct gcccgtgcc cgggagggag cgggcgcacc gcggcccca ggacacgcgc 120
tgacccggtc gccagtcct tcatgatcat gaacaagatg aagaacttta agcgccgttt 180
ctccctgtca gtgccccgca ctgagaccat tgaagaatcc ttggctgaat tcacggagca 240
attcaaccag ctccacaacc ggcggaatga gaacttgag ctcggtcctc ttggcagaga 300

```

```

ccccccgcag gagtgcagca ccttctcccc aacagacagc ggggaggagc cggggcagct 360
ctccccctggc gtgcagttcc agcggcgcca gaaccagcgc cgttcttcca tggaggacgt 420
cagcaagagg ctctctctgc ccatggatat ccgcctgccc caggaattcc tacagaagct 480
acagatggag agcccagatc tgcccagacc gctcagccgc atgtcccgcc gggcctccct 540
gtcagacatt ggctttggga aactggaaac atacgtgaaa ctggacaaac tgggagaggg 600
cacctatgcc acagtcttca aaggcgcgag caaactgacg gagaaccttg tggccctgaa 660
agagatccgg ctggagcacg aggaggggag gccctgcact gccatccgag aggtgtctct 720
gtgaagaac ctgaagcacg ccaatattgt gacctgcat gacctcatcc acacagatcg 780
gtccctcacc ctgggtgttt agtacctgga cagtgcctg aagcagtatc tggaccactg 840
tgggaacctc atgagcatgc acaacgtcaa gattttcatg ttccagctgc tccggggcct 900
cgcctactgt caccaccgca agatcctgca ccgggacctg aagccccaga acctgctcat 960
caacgagagg ggggagctga agctggccga ctttggactg gccagggcca actcagtgcc 1020
cacaaagact tactccaatg aggtggtgac cctgtgttac agggcccccg atgtgtctgt 1080
gygatccaca gactactcca cccccattga tatgtggggc gtgggtgca tccactacga 1140
gatggccaca gggaggcccc tcttccccgg ctcacagtc aaggaggagc tgcacctcat 1200
ctttcgctc ctccgggacc ccacagaaga gacgtggccc ggctgaccg ctttctctga 1260
gttccgcacc tacagcttcc cctgctacct ccgcagccg ctcacaaacc acgcgccag 1320
gttgatagc gatggcatcc acctcctgag cagcctgctc ctgtatgaat ccaagagtgc 1380
catgtacag gagctgccc gagtcactc ctacttccg tctctgggag agcgtgtgca 1440
ccagcttgaa gacactgcct ccactctctc cctgaaggag atccagctcc agaaggacc 1500
aggtaccga ggcttggcct tccagcagcc aggacgagg aagaacaggc ggcagagcat 1560
cttctgagcc acgcccacct tgctgtggcc aagggacaag agatcacatg gagcacaat 1620
tcgggtagga tggagcctgt gtggccctcg gaggactgaa gaacgagggc tgacagcagc 1680
ctggaagacc gcttggcagg cttttggcca agtattttt tttgtggtt cgatctgctg 1740
ccagtagttt cagtggatac aacgtgcttt aggagtggg tgggaaagtc ttgctagagg 1800
gtttaggggg aggtttctac cgttgactcg gtttagggc 1839

```

<210> 37

<211> 2024

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 156108

<400> 37

```

gtcagctctg gttcggagaa gcagcggctg gcgtgggcca tccggggaat gggcgccctc 60
gtgacctagt gttgcggggc aaaaagggtc ttgccggcct cgtcgtgca ggggcgtatc 120
tgggcgcctg agcgcggcgt gggagccttg ggagccgccg cagcaggggg cacacccgga 180
accggcctga gcgcccggga ccatgaacgg ggaggccatc tgcagcgcgc tgcccaccat 240
tcctaccac aaactcgccg acctgcgcta cctgagccgc ggcgcctctg gcactgtgtc 300
gtccgcccgc cagcgagact ggcgcgcca ggtggccgtg aagcacctgc acatccacac 360
tccgctgctc gacagtgaag gaaaggatgt cttaagagaa gctgaaattt tacacaaagc 420
tagatttagt tacattcttc caattttggg aatttgcaat gagcctgaat ttttgggaat 480
agttactgaa tacatgcca atggatcatt aaatgaactc ctacatagga aaactgaata 540
tcctgatgtt gcttggccat tgagatttgc catcctgcat gaaattgccc ttggtgtaaa 600
ttacctgcac aatatgactc ctcccttact tcatcatgac ttgaagactc agaatatctt 660
attggacaat gaatttcatg ttaagattgc agattttggt ttatcaaagt ggcgcgtgat 720
gtccctctca cagtcacgaa gtagcaaatc tgcaccagaa ggagggacaa ttatctatat 780
gccacctgaa aactatgaac ctggacaaaa atcaagggcc agtatcaagc acgatatata 840
tagctatgca gttatcacat ggggaagtgt atccagaaaa cagccttttg aagatgtcac 900
caatcctttg cagataatgt atagtgtgtc acaaggacat cgacctgtta ttaatgaaga 960
aagtttgcca tatgatatac ctaccgagc acgtatgac tctctaataa aaagtggatg 1020
ggcacaaaat ccagatgaaa gaccatcttt cttaaaatgt ttaatagaac ttgaaccagt 1080

```

```

tttgagaaca tttgaagaga taacttttct tgaagctgtt attcagctaa agaaaacaaa 1140
gttacagagt gtttcaagtg ccattcacct atgtgacaag aagaaaatgg aattatctct 1200
gaacataacct gtaaatcatg gtccacaaga ggaatcatgt ggatcctctc agctccatga 1260
aaatagtggt tctcctgaaa cttcaaggtc cctgccagct cctcaagaca atgatttttt 1320
atctagaaaa gctcaagact gttattttat gaagctgcat cactgtcctg gaaatcacag 1380
ttgggatagc accatttctg gatctcaaag ggctgcatc tgtgatcaca agaccactcc 1440
atgctcttca gcaataataa atccactctc aactgcagga aactcagaac gtctgcagcc 1500
tggatatagc cagcagtggg tccagagcaa aaggggaagc attgtgaacc aaatgacaga 1560
agcctgcctt aaccagtcgc tagatgccct tctgtccagg gacttgatca tgaaagagga 1620
ctatgaactt gttagtacca agcctacaag gacctcaaaa gtcagacaat tactagacac 1680
tactgacatc caaggagaag aatttgccaa agttatagta caaaaattga aagataacaa 1740
acaaatgggt cttcagcctt acccggaat acttgtggtt tctagatcac catcttttaa 1800
tttacttcaa aatcaaaagc tgaagtgc tgttttcaa gaagaaatgt gtttcataaa 1860
aggatattta tatctctgtt gctttgactt tttttatata aaatccgtga gtattaaagc 1920
tttattgaag gttctttggg taaatattag tctcctcca tgacactgca gtattttttt 1980
taattaatac aagtaaaaaa tttgaatttt gctacataaa aaaa 2040

```

<210> 33

<211> 1361

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2883243

<400> 33

```

gcttcttagt gaggttggca ttatgttaag gctggtaagg aagacaactg atgaagcagg 60
agtggctctg tgacattttt ctgacttgat tggctggggc gtgtgatgta ataggtttca 120
gtgcagccc ttataggitt taaaatgaat tccaaagacac cattacaaag aaagccggac 180
tcttttctta taactgagct cagccaagga aactcttgca caaatgtaca atactgtttg 240
gaatatggaa gacctggatt tagaatatgc caagacagat ataaattgtg gcacagactt 300
gatgttttat atagaaatgg acccaccagc actgcctcct aaaccacca aacctactac 360
tgtagccaac aacggtatga ataacaatat gtccttaca gatgctgaat ggtactgggg 420
agatatctcg agggagaag tgaatgaaaa acttcgagat acagcagacg ggaccttttt 480
ggtagcagat gcgtctacta aaatgcatgg tgattatact cttacactaa ggaaaggggg 540
aaataacaaa ttaatcaaaa tatttcctcg agatgggaaa tatggcttct ctgaccatt 600
aaccttcagt tctgtggttg aattaataaa ccactaccgg aatgaatctc tagctcagta 660
taatcccaaa ttgatgtga aattacttta tccagtatcc aaataccaac aggatcaagt 720
tgtcaagaa gataatattg aagctgtagg gaaaaaatta catgaatata aactcagtt 780
tcaagaaaa agtcgagaat atgatagatt atatgaagaa tatacccgca catcccagga 840
aatccaaatg aaaaggacag ctattgaagc atttaatgaa accataaaaa tatttgaaga 900
acagtgccag acccaagagc ggtacagcaa agaatacata gaaaagtta aacgtgaagg 960
caatgagaaa gaaatacaaa ggattatgca taattatgat aagttgaagt ctgcaatcag 1020
tgaaattatt gacagtagaa gaagattgga agaagacttg aagaagcagg cagctgagta 1080
tcgagaaatt gacaaacgta tgaacagcat taaaccagac cttatccagc tgagaaagac 1140
gagagaccaa tacttgatgt ggttgactca aaaaggtgtt cggcaaaaaga agttgaacga 1200
gtggttgggg aatgaaaaca ctgaagacca atattcactg gtggaagatg atgaagattt 1260
gccccatcat gatgagaaga catggaatgt tggaagcagc aaccgaaaca aagctgaaaa 1320
cctgttgcca ggggaagcag atggcacttt tcttgctcgg gagagcagta aacagggctg 1380
ctatgcctgc tctgtagtgg tggacggcga agtaaagcat tgtgtcataa acaaaacagc 1440
aactggctat ggctttgccc agccctataa cttgtacagc tctctgaaag aactgggtgt 1500
acattaccaa cacacctccc ttgtgcagca caacgactcc ctcaatgtca cactagccta 1560
ccagtatat gcacagcaga ggcgatgaag cgcttactct ttgatccttc tctgaagtt 1620
cagccacctg gaggcctctg gaaagcaaag ggctcctctc cagtctgac tgtgaattga 1680

```

```

gctgcagaaa cgaagccaac ttttttttga tgggactagt gctttctttc acaaaaaaga 1740
agtaggggaa gacatgcagc ctaaggctgt atgatgacca cacgttccta agctggagtg 1800
cttatccctt ctttttcttt ttttcttttg ttttaatttaa agccacaacc acatacaaca 1860
c                                                    1861

```

```

<110> 39
<111> 2045
<112> DNA
<113> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte Clone Number: 3173355

```

```

<400> 39
cttggctgga acctgagacg gattcgcctc caaatgatgc tccagtggca ggagcaactc 60
aagtctcatca ttgtcctgag agagaggagc agcgcggttc tcggccggga cagcagaacg 120
ccagggggacc ctcacctggg cgcgcggggg caccggcttt gattgtcctg gggtcgcgga 180
gacccgcgcg cctgccctgc acgcggggcg gcaacctttg cagtgcgctt ggctgctgcg 240
atcggccggc gggtcctctc cgaaggctcg gctgcttctg tccacctctt acacttcttc 300
atattatcgtt ggatcatttc gagagtcctg cttgtaaatg tttggcactt tgctacttta 360
ttgcttcttt ctggcgacag ttccagcact cgcgcgagacc ggcggagaaa ggcagctgag 420
cccggagaag agcgaatatat ggggaccccg gctaaaagca gacgtcgtcc tcccccccg 480
ctatttctat attcaggcag tggatacatc agggaaataaa ttcacatctt ctccaggcga 540
aaaggtcttc caggtgaaaag tctcagcacc agaggagcaa ttcactagag ttggagtcca 600
ggttttagac cgaagagatg ggtccttcat agtaagatac agaattgatg caagctacaa 660
aaatctgaag gtggaaatta aattccaagg gcaacatgtg gccaaatccc catatatctt 720
aaaegggccg gtttaccatg agaactgtga ctgtcctctg caagatagtg cagcctgggt 780
acgggagatg aactgccttg aaaccattgc tcagattcag agagatctgg cacatttccc 840
tgctgtggat ccagaaaaga ttgcagtaga aatcccaaaa agatttggac agaggcagag 900
cctatgtcac tacaccttaa aggataacaa ggtttatatc aagactcatg gtgaacatgt 960
aggtttttaga attttcatgg atgccatact actttctttg actagaaaagg tgaagatgcc 1020
agatgtggag ctctttgtta atttgggaga ctggcctttg gaaaaaaaga aatcccaact 1080
aaacatccat ccgatctttt cctggtgtgg ctccacagat tccaaggata tcgtgatgcc 1140
tacgtacgat ttgactgatt ctgttctgga aacctggggc cgggtaagtc tggatatgat 1200
gtccgtgcaa gctaacacgg gtccctccctg ggaaagcaaa aattccactg ccgtctggag 1260
agggcgagac agccgcaaag agagactcga gctgggttaa ctcagtagaa aacaccacga 1320
actcatagac gctgctttca ccaacttttt cttcttttaa cacgatgaaa acctgtatgg 1380
tcccattgtg aaacatattt cattttttga tttcttcaag cataagtatc aaataaatat 1440
cgatggcact gtagcagctt atcgccctgc atatttgcta gttggtgaca gtgttggtgt 1500
gaagcaggat tccatctact atgaacattt ttacaatgag ctgcagccct ggaaacacta 1560
cattccagtt aagagcaacc tgagcgatct gctagaaaaa cttaaatggg cgaaagatca 1620
cgatgaagag gccaaaaaga tagcaaaagc aggacaagaa tttgcaagaa ataatctcat 1680
gggcgatgac atattctgtt attatttcaa acttttccag gaatatgcca atttacaagt 1740
gagtgaagccc caaatccgag agggcatgaa aagggtagaa ccacagactg aggacgacct 1800
cttcccttgt acttgccata ggaaaaagac caaagatgaa ctctgatatg caaaataact 1860
tctattagaa taatgggtgt ctgaagactc ttcttaacta aaaagaagaa tttttttaag 1920
tattaattcc atggacaata taaaatctgt gtgattgttt gcagtatgaa gacacatttc 1980
tacttatgca gtattctcat gactgtactt taaagtacat ttttagaatt ttataataaa 2040
accac                                                    2045

```

```

<210> 40
<211> 1260

```

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 5116906

<400> 40

```

cgatattttt ctttcttagt ttcccatttc atattgtttt gtcaaatcaa ctgtgactca 60
ttaaactctc ttttccctag gttttgctgg cacacctgga tatcttctc cagaagtttt 120
acgtaaagat ccttatggaa agccagtggg tatgtgggca tgtgggtgtc ttctctatat 180
tctacttggt gggatccac ccttctggga tgaagaccaa cacagactct atcagcagat 240
caaggctgga gcttatgatt ttccatcacc agaatgggac acgggtgactc ctgaagccaa 300
agacctcatc aataaaatgc ttactatcaa ccttgccaaa cgcatacacag cctcagaggc 360
actgaagcac ccatggatct gtcaacgttc tactgttgct tccatgatgc acagacagga 420
gactgtagac tgcttgaaga aatttaatgc tagaagaaaa cttaaaggggtg ccatcttgac 480
aactatgctg gctacaagga atttctcagc agccaagagt ttgttgaaga aaccagatgg 540
agtaaaggag tcaactgaga gttcaaatac aacnattgag gatgaagatg tgaaagcacg 600
aaagcaagag attatcaaag tcaactgaaca actgatcgaa gctatcaaca atggggactt 660
tgaagcctac acaaaaatct gtgacccagg ccttactgct ttggaacctg aagctttggg 720
taatttagtg gaaggatgg attttcaccg attctacttt gaaaatgctt tgtccaaaag 780
caataaacca atccacacta ttattctaaa ccttcatgta catctggtag gggatgatgc 840
cgctgcata gcatatatta ggctcacaca gtacatggat ggcagtggaa tgccaaagac 900
aatgcagtca gaagagactc gtgtgtggca ccgcccggat ggaaagtggc agaattgtca 960
ttttcatgct tcgggggtc acacagtacc catcaactaa atttcaacag tgccacttct 1020
gcattctctg ttctcaaggc acctggatgg tgacctggg ccgtcctctc ctctcttca 1080
tgcattttt tgagtgcatt aagtgtgtga ggtcctacat gtaatgcata tgtgatgcat 1140
catcttatca tatattcctt cctatacatt gtttacactt caactacggg gatgttccac 1200
acaaacttaa attactgttg gcaaaacaat agggggagat tagacaaaaa aaaaaaaaaa 1260

```

<210> 41

<211> 2059

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 940589

<400> 41

```

aaacctatga aacgctaatt aaagcagaca tcaaatctg gatccttaca ggggacaagc 60
aagaaactgc cattaacatc ggacactcct gcaaactgtt gaagaagaac atgggaatga 120
ttgttataaa tgaaggctct cttgattctt tctctaatac acagaattct aggaaggagg 180
ctgttctttt agccaaaatg aaacacccta atattgttgc cttcaaagaa tcatttgaag 240
ctgaaggaca cttgtatatt gtgatggaat actgtgatgg aggggatcta atgcaaaaga 300
ttaaacagca gaaaggaaag ttatttcctg aagacatgat acttaattgg ttaccctaaa 360
tgtgccttgg agtaaatcac attcacaaga aacgtgtgct acacagagat atcaagtcca 420
agaatatctt cctcactcag aatggaaaag tgaaattggg agactttgga tctgcccgtc 480
ttctctccaa tccgatggca tttgcttgta cctatgtggg aactccttat tatgtgcctc 540
cagaaatttg ggaaaacctg ccttataaca ataaaagtga catctgggtc ttgggttgca 600
tctgttatga actctgtacc cttaagcatc catttcagtc aaatagtgtg aaaaatctta 660
tctcctaaag atgtcaaggg tgcatacgtc cactgccgtc tcattactcc tatgaacttc 720
aatttcctag caagcagatg tttaaaagga atccctcaca tgcacctctg gctacaacgc 780
ttctctctcg aggcacgtg gctcggcttg tccagaagtg cttacccccc gagatcatca 840
tggaatatgg tgaggaaagta ttagaagaaa taaaaattc gaagcataac acaccaagaa 900

```

```

aaaaacacaaa cccacagcaga atcaggatag ctttgggaaa tgaagcaagc acagtgcag 960
aggaagaaca agatagaaaag ggtagccata ctgatttggg aagcattaat gaaaatttag 1020
ttgaagtgct attgagaaga gtaaacagag aagaaaaagg taataagtca gtccatctga 1080
ggaaagccag ttcaccaaatt ctccatagac gacagtggga gaaaaatgta cccaatacag 1140
ctcttacagc tttggaaaat gcctccatac tcacctccag tttaacagca gaggacgata 1200
gaggtgggttc tgtaataaaag tacagcaaaa atactactcg taagcagtgg ctcaaagaga 1260
ccccgacac tttgttgaac atccttaaga atgctgatct cagcttggct tttcaaacat 1320
acacaatata tagaccaggt tcagaagggt tcttgaaagg cccctgtct gaagaaacag 1380
aagcatcgga cagtgttgat ggaggtcacg attctgtcat tttggatcca gagcgacttg 1440
agcctgggct agatgaggag gacacggact ttgaggagga agatgacaac cccgactggg 1500
tgtcagagct gaagaagcga gctggatggc aaggcctgtg cgacagataa tgcttgagga 1560
aatgttctcg agtcacgctg aggagagcct tcaactcagga gttcatgctg agatgatcat 1620
gagttcatgc gacgtatatt ttcttttggg aacagaatga agcagaggaa actcttaata 1680
cttaaaatcg ttcttgatta gtatcgtgag tttgaaaagt ctagaactcc tgtaagtttt 1740
tgaactcaag ggagaaggta tagtggaatg agtgtgagca tcgggctttg cagtcacata 1800
gaacagaaat gggatgctag cgtgccacta cctacttgtg tgattgtggg aaattactta 1860
acctcttcaa gccccaattt cctcaaccat aaaatgaaga taataatgcc taccctagag 1920
ggatgctgac cacagacctt tatagcagcc cgtatgatat tattcacatt atgatagtgt 1980
tttatatta tgtgactctt ttacatttc ctaaagggtc gagaattaaa tatatttaat 2040
tatgaaaaaa aaaaaaaaaa

```

<210> 42

<211> 1023

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 304421

<400> 42

```

gaggcagagg ggtggggcggg ctggcccatg gctgagacct ctctcccaga gctgggggga 60
gaggacaaag ccacgccttg cccacgcatc ctggagctgg aggagctcct gcgggcaggg 120
aagtcttctt gcagccgtgt ggacgaagtt tggcccaacc ttttcatagg agatgcgatg 180
gactcactgc agaagcagga cctccggagg cccaagatcc atggggcagt ccaggcatct 240
ccctaccagc cgccacatt ggcttcgctg cagcgcttgc tgtgggtccg tcaggctgcc 300
acactgaacc atatcgatga ggtctggccc agcctcttcc tgggagatgc gtacgcagcc 360
cyggacaaga gcaagctgat ccagctggga atcaccacg ttgtgaatgc cgctgcaggc 420
aagtccaggt tggacacagg tgccaaattc taccgtggaa tgcctctgga gtactatggc 480
atcgaggcgg atgacaaccc cttcttcgac ctcaagtgtct actttctgcc tgttgcctga 540
tacatccgag ctgccctcag tgttcccaa ggccgcgtgc tggtagactg tgccatgggg 600
gtaagccgct ctgccacact tgcctggcc ttctcatga tctatgagaa catgacgctg 660
gtagaggcca tccagacggt gcaggcccac cgcaatatct gccctaactc aggccttctc 720
cggcagctcc aggttctgga caaccgactg gggcgggaga cggggcggtt ctgatctggc 780
aggcagccag gatccctgac ccttggccca accccaccag cctggccctg ggaacagcag 840
gctctgctgt ttctagtga cctgagatgt aaacagcaag tgggggctga ggcagaggca 900
gggatagctg ggtggtgacc tcttagcggg tggatttccc tgacccaatt cagagattct 960
ttatgcaaaa gtgagttcag tccatctcta taataaaata tttatcgtca taaaaaaaaa 1020
aaa

```

<210> 42

<211> 4416

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1213802

<400> 43

```

gaaatttttt tctgcctcat tattattaat tcatggattg agtgttgggt cgacctacag 60
gcgtaataga ttggaactca gtgaagacac agatgttcct gttcagagca accagctaata 120
gattacagtt taaagacaat ttctgtgatc aagttgtcat ttggaagatt aaacccattt 180
cacgaggact tggagcctgg tccttgcttt gaggaagcag tggcttgttt caagaagcca 240
cttctgatct aagaatctac ccagcatgcc taatcaagga gaagactgct attttttttt 300
ctattccaca tgtaccaaag gcgacagctg cccattccgt cactgtgaag ctgcaatagg 360
aaatgaaact gtttgacat tatggcaaga agggcgctgt ttcgacagg tgtgcagggt 420
tcggcacatg gagattgata aaaaacgcag tgaaattcct tgttattggg aaaatcagcc 480
aacaggatgt caaaaattaa actgcgcttt ccatcacaat agaggacgat atgttgatgg 540
ccttttccta cctccgagca aaactgtgtt gccactgtg cctgagtcac cagaagagga 600
agtgaaggct agccaacttt cagttcagca gaacaaattg tctgtccagt ccaatccttc 660
ccctcagctg cggagcgtaa tgaaagtaga aagttccgaa aatgttcta gccccacgca 720
tccaccagtt gtaaltaatg ctgcagatga tgatgaagat gatgatgatc agttttctga 780
ggaaggtgat gaaacccaaa cactaccct gcaaccaact cctgaagtcc acaatggatt 840
acgagtgaact tctgtccgga aacctgcagt caataataag caaggtgaat gtttgaattt 900
tggaataaaa actcttgagg aaattaagtc aaagaaaatg aaggaaaaat ctaagaagca 960
agggtgagggt tcttcaggag tttccagttc ttactccac cctgagcccg ttccagggtcc 1020
tgaaaaagaa aatgtcagga ctgtggtgag gacagtaact ctctccacca aacaaggaga 1080
agaacccttg gttagattga gtcttactga gagactgggg aaacgaaaat ttccagcagg 1140
cggtgacagt gatcctccat taaagcgtag cctggcacag aggctaggga agaaagttga 1200
agctccagaa actaacattg acaaaacacc aaagaaagct caagtttcca agtctcttaa 1260
ggagcgatta ggcattgtcag ctgatccaga taatgaggat gcaacagata aagttaataa 1320
agttggtgag atccatgtga agacattaga agaaattcct cttgaaagag ccagtcagaa 1380
acgtggagaa ttgcaaaact aactcaagac agaaggacct tcaaaaactg atgattctac 1440
ttcaggagca agaagctcct ccactatccg tatcaaaaacc ttctctgagg tcctggctga 1500
aaaaaaacat cggcagcagg aagcagagag acaaaaaagc aaaaaggata caacttgcatt 1560
caagctaaag attgatagtg aaattaaaaa aacagtattt ttgccacca ttgttggccag 1620
cagaggacaa tcagaggagc ctgcaggtaa aacaaagtct atgcaggagg tgcacatcaa 1680
gacgttgaa gaaattaaac tggagaaggc actgagggtg cagcagagct ctgagagcag 1740
caccagctcc ccgtctcaac acgaggccac tccaggggca aggcggctgc tgcgaatcac 1800
caaaagaaca gggatgaaag aagagaagaa ccttcaggaa ggaaatgaag ttgattctca 1860
gagcagtatt agaacagaag ctaaagaggc ttcagggtgag accacaggag ttgacatcac 1920
taaaattcaa gtcaagagat gtgagaccat gagagagaag cacatgcaga aacagcagga 1980
gagggaaaaa tcagtcttga cacctcttcg gggagatgta gcctcttgca ataccaagt 2040
ggcagagaaa ccagtgtcct ctgctgtgcc aggaatcaca cggcacctga ccaagcggct 2100
tcccacaaa gtcattccaga aggtggaggt agaaacctca gggattggag actcattatt 2160
gaatgtgaaa tgtgcagcac agaccttgga aaaaaggggt aaagctaaac ccaaagtga 2220
cgtgaagcca tctgtggtta aagttgtgtc atcccccaa ttggcccaa aacgtaaggc 2280
agtggagatg cacgtgtctg tcattgccgc tgtgaagcca ctcagctcca gcagtgtcct 2340
acaggaacct ccagccaaaa aggcagctgt ggctgtgtgc ccgttgtct ctgaggacaa 2400
atcagtcact gtgcctgaag cagaaaatcc tagagacagt cttgtgtctgc ctccaacca 2460
gtcctcttca gattcctcac cccggagggt gtctggcct tcctcatccc aaatgagcat 2520
gaaaactcgc cgactcagct ctgcctcaac aggaaagccc ccactctctg tggaggatga 2580
ttttgagaaa ctaatatggg agatttcagg aggcaaattg gaagctgaga ttgacctgga 2640
tcctgggaaa gatgaagatg accttctgct tgagctatca gaaatgattg atagctgaag 2700
gtggtagtga ggacacttta aaaaaaaaat cgccaaaaaa ctggacttag ttctatctat 2760
tgtaacattt acctgagatg atcatttctt tagctagaa tttgccccaa atcagaagta 2820
tacctctgaa ttatctgtat gtgtcctgga ttccttgggg tcagattttt aaagtactt 2880
tataaccatt ttgtccattt gatgccattg tttatcatct tttgagaaaa aagttctgtc 2940
atacccttct ctccacaaaa aagagactga gagggagatc aagtgaagg gtgcaagcga 3000

```



```

acttagtgac tccttgaggt gtttgtcagt tttggttttt ttcttctttg ttgtattctt 3060
tatgtattgt cttgatgtac ttaatatattac ctgagtttga aatggatgaa gacagctgct 3120
accattaagg accaaatttt atgctaccac taaacaaaaa taacctca gtcgtgtgta 3180
aattgtatgt ctttttaaag gtatttaaag attcaactaa gctttaaaga gggctgagca 3240
gctcaggaag cctgtaaatgt gggcataaact ctttggacct gatcttgatg cttctgctgc 3300
tctgttagcc tctgaagagc aatatctaatt ttattattac tgtaattttt taaaaggctt 3360
taaagtgcct caggggtccc ctgaaactaa ttttctattt ctgggattcc ctggattcat 3420
tatatgagat ggtgacatga ttagaggaat tcttttttag tatgaaaatt gtcccttttc 3480
ttcttcagta cttgcctcct tgctggcatt gaattaacac agggacaaaa tttggttaat 3540
tttttatttc taactctccc aacaaaacccc tgttgcccag tatttgtttg gtggccttta 3600
accacctgag ggaaaaaatg agcttattca agctgccaat atttatctat gggctgtagc 3660
agtacactga attgtactgt gccagggata ttgagatgct ctgggggtgt attgtatacc 3720
tgccagtttt cttcatttct gaattgagtt ttcttttctt gatgttggtt tccttcatat 3780
cacctcaagg tttagatttg tgaaggaata agcatgatgg aaataaatag cttgaaaggga 3840
gatatgttgt atataatcag gaggaagagg aagggaaggac ttacctattt tgatattttg 3900
ctgtagggtg ccagtttttg ttctcatagg gaaatctgac ccacctgtca tgttggctcc 3960
taaggaaactg ctgttgtaag cggctcatca agagctgaac ttacgtagc cttgttgga 4020
atatggaaaa ggaaagaaag cacaggacag cccattcagt ctgggaaga ttgggatgat 4080
tctgcacaa caaaaatgac tgaagtttat ctatagacac acctctacca atccatcttc 4140
agctgactga atgttgatat aragctcttc tccaaagcag aggtagaatg ttcaggtttc 4200
accatggatt ttctacttat ttcttttctg gaatcagctt acagattcca ggtccctttt 4260
gtatatattc ttattctttt tgctttttta aaaaataatt ttgtttcata tttaaagcac 4320
ttgtattagt caatgtttcg tgttccgcac tatttgaacc atttgccctt acagaaagag 4380
aaatacttgt ttgtgtttta aataaaactg atgtag 4446

```

<210> 44

<211> 2063

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1378134

<400> 44

```

gcagtcctac agtccgctga tgcgtcgcgg ggccagcaac gctgccgcgg cagcccacac 60
gattggcggc agtaagcaca caatgaatga tcacctgcat gtcggcagcc acgctcacgg 120
acagatccag gttcgacagt tgtttgagga taacagtaac aagcggacag tgctcacgac 180
acaaccaaat gggcttacaa cagtgggcaa aacgggcttg ccagtgggtg cagagcggca 240
gctggacagc attcatagac ggcagggggag ctccacctct ctaaaagtcca tgggaaggcat 300
ggggaaggty aaagccaccc ccatgacacc tgaacaagca atgaagcaat acatgcaaaa 360
actcacagcc ttcgaacacc atgagatttt cagctaccct gaaatatatt tcttgggtct 420
aaatgctaag aagcgccagg gcatgacagg tgggcccac aatgggtggc atgatgatga 480
ccagggatca tatgtgcagg tgcccacga tcacgtggct tacaggtatg aggtcctcaa 540
ggtcattggg aaggggagct ttgggcagg gtcaaggcc tacgatcaca aagtccacca 600
gcacgtggcc ctaaaagatg tgcggaatga gaagcgcttc caacggcaag cagcggagga 660
gatccgaatc ctggaacacc tgcggaagca ggacaaggat aacacaaatga atgtcatcca 720
tatgctggag aatttcacct tccgcaacca catctgcatg acgtttgagc tgctgagcat 780
gaacctctat gagctcatca agaagaataa attccagggc ttcagtctgc ctttggttcg 840
caagtttgc cactcgattc tgcaigtgctt ggatgctttg cacaaaaaca gaataattca 900
ctgtgacctt aagcccagag acattttgtt aaagcagcag ggtagaagcg gtattaaagt 960
aattgatatt ggctccagtt gttacgagca tcagcgtgtc tacacgtaca tccagtcgag 1020
tttttaccgg gctccagaag tgatccttgg ggcaggtat ggcattgccc ttgatatgtg 1080
gagcctgggc tgcattttag cagagctcct gacgggttac cccctcttgc ctgggggaaga 1140
tgaagggggc cagctggcct gtatgattga actgttgggc atgccctcac agaaaactgt 1200

```

```

ggatgcatcc aaacgagcca aaaatTTTgt gagctccaag ggTtatcccc gttactgcac 1260
tgTcacgact ctctcagatg gctctgtggt cctaaacgga ggccgttccc ggagggggaa 1320
actgaggggc ccaccggaga gcagagagtg ggggaacgcg ctgaaggggt gtgatgatcc 1380
ccttttccctt gacttcttaa aacagtgttt agagtgggat cctgcagtgc gcatgacccc 1440
argccagget ttggcgacc cctggctgag gaggcggttg ccaaagcctc ccaccgggga 1500
gaaaacgtca gtgaaaagga taactgagag caccggtgct atcacatcta tatccaagtt 1560
acctccacct tctagctcag ctcccaaact gaggactaat ttggcgcgaga tgacagatgc 1620
caatgggaat attcagcaga ggacagtgtt gccaaaactt gttagctgag ctacagtcctc 1680
ctgatgctgg taacctgaaa gatacgacat tgctgagcct tactgggttg aaaaggagta 1740
gctcagacct gtttttattt gctcaataac tctactcatt tgtatctttt cagcacttaa 1800
ttttaatgta agaaagtgtt tcattttgtt ttataaaaat acatgaggac aatgctttaa 1860
gtttttatac ttccagaaac tttttgtgtt ctaaaagtac aatgagcctt actgtattta 1920
gtgtggcaga ataataacat cagtggcagg ccactgatta cttcatgact gccacgcatt 1980
tacagattgg tgtcaaagac attcactatg tttttatggt tcatgttata tcttccccag 2040
ggtgacagcc ccttaaggcc ctcttttt 2068

```

<210> 45

<211> 1850

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1490070

<400> 45

```

gggctgectg cctgectgcc tgectgectg gccgggcccg agctccagcc tgctcttcc 60
actggccact gctcccacc cagggtgggc atcctgctc cctgcectgg gtcccagact 120
gtgtctctca tcaccgcagg tcggtgaggg gctgggctgg acaccagggc ccgccctccc 180
atcactgagc tccactcctt cctcattttg ctgctgattc tagcccaaaa caaaacaggt 240
tgagcttttt cctccctca gaagctcttc tctggctcgt ggctgccttc tgagtgttcg 300
agacggcgcc gcccggaag gggggcctgg gccagccctg ccaggactgg gacgtgctg 360
ctggcgectg gccctccatc aggccagcct gtggcaggag agtgagcttt gccgcggcag 420
acgectgagg atgatgcccc agctgcagtt caaagatgcc ttttggtgca gggacttcac 480
agcccacacg ggctacgagg tgctgctgca gcggcttctg gatggcagga agatgtgcaa 540
agacatgggt gagctactgt ggcagagggc ccaggcggag gagcggtagc ggaaggagct 600
ggtgcagatc gcacggaagg caggtggcca gacggagatc aactccctga gggcctcctt 660
tgactccttg aagcagcaaa tggagaatgt gggcagctca cacatccagc tggccctgac 720
cctgcgtgag gagctgcgga gtctcgagga gtttcgtgag aggcagaagg agcagaggaa 780
gaagtatgag gccgtcatgg accgggtcca gaagagcaag ctgtcgtctc acaagaaggc 840
catggagtcc aagaagacat acgagcagaa gtgccgggac gcggaagacg cggagcaggc 900
cttcgagcgc attagcgcca acggccacca gaagcaggtg gagaagagtc agaacaagc 960
caggcagtg c aaggactcgg ccaccgaggc agagcgggta tacaggcaga gcattgcgca 1020
gctggagaag gtccgggctg agtgggagca ggagcaccgg accacctgtg aggcctttca 1080
gctgcaagag tttgaccggc tgaccattct ccgcaacgcc ctgtgggtgc acagcaacca 1140
gctctccatg cagtgtgtca aggatgatga gctctacgag gaagtgcggc tgacgtgga 1200
aggtgcagc atagacgcc acatcgacag tttcatccag gccaaagca cgggcacaga 1260
gcccccgct ccggtgccct accagaacta ttacgatcgg gaggtcacc cgtgaccag 1320
cagccctggc atacagcctt cctgcggcat gataaagagg ttctctggac tgctgcacgg 1380
argtcccaag accacttctg tggcagcttc tgctgcgtcc acagagacct tgacccccac 1440
ccccgagcgg aatgaggggt tctacacagc catcgagtg caggagatac agggaaacct 1500
ggcctcacca gcccaggagt accgggctgt ctacgattat acagcgcaga acccagatga 1560
gctgjacctg tccgcgggag acatcctgga ggtgatcctg gaaggggagg atggctgggt 1620
gactgtggag aggaacgggc agcgtggtt cgtccctggt tectacctgg agaagctttg 1680
aggaagggcc aggagccctt tcggacctgc cctgccagtg gagccagcag tgccccagc 1740

```

```
actgtcccca ccttgctagg gcccagaacc aagcgtcccc cagccccgag aggggagcctg 1800
tcgtctccca ggggaataaag gagtgcgctt tgtttctcaa aaaaaaaaaa 1850
```

<210> 46

<211> 2534

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1997814

<400> 46

```
gaagagggga tggagcaggg gctggaggag gaagaaagagg tggatccccg gatccagggg 60
gaactggaga agttaaatca gtccacggat gatatcaaca gacgggagac tgaacttgag 120
gatgctcgtc agaagttccg ctctgttctg gttgaagcaa cggtgaaact ggatgaactg 180
gtgaagaaaa ttggcaaaagc tgtggaagac tccaagccct actgggagggc acggaggggtg 240
gcgaggcagg ctacagctgga agctcagaaa gccacgcagg acttccagag ggccacagag 300
gtgctccgtg ccgccaagga gaccatctcc ctggccgagc agcggctgct ggaggatgac 360
aagcggcagt tcgactccgc ctggcaggag atgctgaatc acgccactca gagggtcatg 420
gaggcggajc agaccaagac caggagcgag ctggtgcata aggagacggc agccaggtag 480
aatgccgcca tgggcgcgat gcgacagctg gagaagaaac tcaagagagc catcaacaag 540
tccaagcctt attttgaact caaggcaaa g tactatgtgc agctcgagca actgaaaaag 600
actgtggatg acctgcaggc caaactgacc ctggcaaaag gcgagtacaa gatggccctg 660
aagaacctgg agatgatctc agatgagatc caccagcggc ggcgctccag tgccatgggg 720
cctcggggat gcggtgttgg tgcigagggc agcagcacat ctgtggagga tctgccaggg 780
agcaaacctg agcctgatgc catttctgtg gcctcggagg cctttgaaga tgacagctgt 840
agcaactttg tgtctgaaga tgactcggaa acccagtcgg tgtccagctt tagttcagga 900
ccaacaagcc cgtctgagat gcctgaccag ttccctgcgg ttgtgaggcc tggcagcctg 960
gatctgcca gccctgtgtc cctgtcagag tttgggatga tgttccaggt gttgggccct 1020
cgaagtgaat gcagcggggc ctctctccct gaatgtgaag tagaacgagg agacagggga 1080
gaaggggcag agaataaaac aagtgacaaa gccaacaaca accggggcct cagcagtagc 1140
agtggcagtg gtggcagcag taagagccaa agcagcacct cccctgaggg ccaggccctg 1200
gagaaccgga tgaagcagct ctccctacag tgctcaaagg gaagagatgg aattactgct 1260
gacataaaaa tgggtgcagat tggctgattc atcctgggcc ctggccgatg tgcatatcaa 1320
catttataca tggaaactgga gaacattgtg ccaataatca tttaatatat gccaaatctt 1380
acacgtctac tctaaactgc tctaataaag tttcagtgac cttgagggct aaagattgtt 1440
cttctgggta agagctcttg ggctggtttt tcagagcaga gttcttgttg tgggtagact 1500
gtgactaggt tcacagcctt tgtggaacat tccgtataac ggcattgttg aagcaataac 1560
tagttcctat gaaagaacca gagctgggaa gatggctggg aagccaggcc aaagtggggg 1620
caacagcttg cttctctttc tcttctcacc ctacgtttgt atgggaaaaat ggagatgtcc 1680
tctccacttt atcccacgat atctaaatga aaaagaaaaga aaaccacac acaaagcaaa 1740
aactcaagta ttaagagcac atatttttga ccagtgagg gcttaaaaaa aaaaaatcc 1800
aagaacacaa ttcattttca ccacctctgg tggtcagagg gggcttttaa aaaagcgtgt 1860
atgctgggat acccattaaa accattttct agaaggctac catgagctgc actttttggg 1920
gtgggaaaag tgaatgccag tggggatgcg ggggagtag ggtaggaggg acttatagaa 1980
ggggatttgt ggctgtgggg gagaagggtt tacagcataa gccttatcct gccagccaag 2040
gggatttatt ctaagagaag tgcatgtgaa gaatggttgc cactgttatt agattgacaa 2100
gatgttaatt tctctgtagg ttgtaacttt aaaaataaat gaaattatgt aaggggttatg 2160
ctgcactagt attccttaga ggaaacagtt ctttaaagtt aggaaaggga gtaggcaggc 2220
atgtgttggc aaaggctgtt aatagtagtt aagtgttaag actgcttttc ttaacgttt 2280
tcattgtaat gcatttttag agcactgtat ttttgccttg ttaagaaaat ttagcatttc 2340
taaaagaaaa aagcaaccct ctttcaaact gttaattctg tcacagcctg tatatttttag 2400
tcatttghaa atctcttcac acaatagtga cttctttttt gactgataca gtatcttaat 2460
tacaaggtta ttttgtactt gtcttaatac actaagtgtg ataaaaacgg cttgagaaaa 2520
```

gttaaaaaaaaa aaaa

2534

<210> 47

<211> 3786

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2299715

<400> 47

```

ccgtcctcga ggcgaggaga gtaccggggc ggccccgctg ccgcgcgagg agcgcggctg 60
gcggcctggg ctgcggctga gatacacaga gcgacagaga catttattgt tatttgtttt 120
ttggtggcaa aaagggaanaa tggcgaaacga ctccccctga aaaagtctgg tggacatcga 180
cctctcctcc ctgcgggatc ctgctgggat ttttgagctg gtggaagtgg ttggaaatgg 240
cacctatgga caagtctata agggtcgaca tgttaaaacg ggtcagttgg cagccatcaa 300
agttatggat gtcactgagg atgaagagga agaaatcaaa ctggagataa atatgctaaa 360
gaaatactct catcacagaa acattgcaac atattatggg gctttcatca aaaagagccc 420
tccaggacat gatgaccaac tctggcttgt tatggagttc tgtggggctg ggtccattac 480
agaccttgtg aagaacacca aagggaacac actcaaaaga gactggatcg cttacatctc 540
cagagaaaac ctgagggggac tggcacatct tcacattcat catgtgattc accgggatat 600
caagggccag aatgtgttgc tgactgagaa tgcaggggtg aaacttgttg acttttgtgt 660
gagtgtctag ctggacagga ctgtggggcg gagaaatacg ttcataggca ctccctactg 720
gatggctcct gaggtcatcg cctgtgatga gaacccagat gccacctatg attacagaag 780
tgatctttgg tcttgtggca ttacagccat tgaatggca gaaggtgctc cccctctctg 840
tgacatgcat ccaatgagag cactgtttct cattcccaga aaccctctc cccggctgaa 900
gtcaaaaaaa tggtcgaaga agtttttttag ttttatagaa ggggtgcctgg tgaagaatta 960
catgcagcgg cctctctacag agcagctttt gaaacatcct tttataaggg atcagccaaa 1020
tgaaaggcaa gttagaatcc agcttaagga tcatatagat cgtaccagga agaagagagg 1080
cgagaaaagt gaaactgagt atgagtacag tgggagttag gaagaagagg aggaagtggc 1140
tgaacaggaa ggagagccaa gttccattgt gaacgtgcct ggtgagtcta ctcttcggcg 1200
agatttcttg agactgcagc aggagaacaa ggaacgttcc gaggtctctc ggagacaaca 1260
gttactacag gagcaacagc tccgggagca ggaagaatat aaaaggcaac tgcctggcaga 1320
gagacagaag cggattgagc agcagaaaga acagaggcga cggctagaag agcaacaaaag 1380
gagagagcgg gaagctagaa ggcagcagga acgtgaacag cgaaggagag aacaagaaga 1440
aaagaggcgt ctagaggagt tggagagaag gcgcaaagaa gaagaggaga ggagacgggc 1500
agaagaagaa aagaggagag ttgaaagaga acagagtagt atcaggcgac agctagaaga 1560
ggagcagcgg cacttggaag tccttcagca gcagctgctc caggagcagg ccatgttact 1620
gcatgaccat aggaggccgc acccgagca ctgcgagcag ccgccaccac cgcagcagga 1680
aaggagcaag ccaagcttcc atgctcccga gcccaaaagcc cactacgagc ctgctgaccg 1740
agcgcgagag gttcctgtga gaacaacatc tcgctcccct gttctgtccc gtcgagattc 1800
cccactgcag ggcagtgggc agcagaatag ccaaggcagga cagagaaaact ccaccagtat 1860
tgagcccagg cttctgtggg agagagtggg gaagctgggtg cccagacctg gcagtggcag 1920
ctcctcaggg tccagcaact caggatccca gcccggtct caccctgggt ctacagagtgg 1980
ctccggggaa cgcttcagag tgagatcatc atccaagtct gaaggctctc catctcagcg 2040
cctggaaaaa gcagtgaanaa aacctgaaga taaaaaggaa gttttcagac cctcaagcc 2100
tgctgatctg accgcactgg ccaaagagct tcgagcagtg gaagatgtac ggccacctca 2160
caaagtaacg gactactcct catccagtga ggagtcgggg acgacgggatg aggaggacga 2220
cgatgtggag caggaagggg ctgacgagtc cacttcagga ccagaggaca ccagagcagc 2280
gtcactctct aattttgagc atggtgaaac ggaatctgtg aaaaccatga ttgtccatga 2340
tgatgtagaa agtgagccgg ccatgacccc atccaaggag ggcactctaa tcgtccgcca 2400
gactcagtec gctagtagca cactccagaa acacaaatct tctcctcct ttacaccttt 2460
tatagacccc agattactac agatttctcc atctagcgga acaacagtga catctgtggg 2520
gggattttcc tgtgatggga tgagaccaga agccataagg caagatccta cccggaaaagg 2580

```

```

ctcagtgggc aatgtgaatc ctaccaacac taggccacag agtgacaccc cggagattcg 2640
taaatacaag aagaggttta actctgagat tctgtgtgct gccttatggg gagtgaattt 2700
gctagtgggt acagagagtg gcctgatgct gctggacaga agtggccaag ggaagggtcta 2760
tcctcttata aaccgaagac gatttcaaca aatggacgta cttgagggct tgaatgtctt 2820
ggtgacaata tctggcaaaa aggataagtt acgtgtctac tatttgtcct gggttaagaaa 2880
taaaatactt cacaatgata cagaagttga gaagaagcag ggatggacaa ccgtaggggga 2940
tttggaaagga tgtgtacatt ataaagttgt aaaatatgaa agaatacaat ttctgggtgat 3000
tgctttgaag agttctgtgg aagtctatgc gtgggcacca aagccatata acaaatttat 3060
ggccttttaag tcatttggag aattgggtaca tggatcctgt gctggattcc atgctgttga 3120
tgtggattca ggatcagtc atgacattta tctaccaaca catatccagt gtagcatcaa 3180
accccatgca atcatcatcc tccccaatat agatggaatg gagcttctgg tgtgctatga 3240
agatgagggg gtttatgtaa acacatatgg aaggatcacc aaggatgtag ttctacagtg 3300
gggagagatg cctacatcag tagcatatat tcgatccaat cagacaatgg gctggggaga 3360
gaaggccata gagatccgat ctgtggaaac tggtracatt gatggtgtgt tcatgcacaa 3420
aagggtctaa agactaaaat tcttgtgtga acgcaatgac aagggttctt ttgcctctgt 3480
tcggtctggt ggcagcagtc aggtttattt catgacctta ggcaggactt ctcttctgag 3540
ctggtagaag cagtgtgata cagggtattac tggcctccag agtcttcaag atcctgagaa 3600
cttggaaatt cttgtaactg gagctcggag ctgcacggag ggcaaccagg acagctgtgt 3660
gtgcagacct catgtgttgg gttctctccc ctcttctctg ttctctttat ataccagttt 3720
atccccattc tttttttttt tcttactcca aaataaatca aggctgcaat gcagctgggtg 3780
ctgtta 3736

```

<210> 48

<211> 1182

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 209854

<400> 48

```

gttgggtgaag tcaagcgaag gcgactagag ctccaggagg gccagttctg tgggctctag 60
tcggccatat taataaagag aaaggggaagg ctgaccgtcc ttcgctcccg ccccccacata 120
cacacccctt ctccccactc cgctctcacg actaagctct cagcattaag gcaacgcctgc 180
ctcgattgtc cagcctctgc cagaagaaaag cttagcagcc agcgctcag tagagaccta 240
agggcgctga atgagtggga aagggaaatg ccgaccaatt gcgctgcggc gggctgtgcc 300
actacctaca acaagcacat taacatcagc ttccacaggt ttcttttga tcctaaaaga 360
agaaaagaat gggttcgcct ggttaggcgc aaaaattttg tgccaggaaa acacactttt 420
ctttgttcaa agcactttga agcctcctgt tttgacctaa caggacaaac tcgacgactt 480
aaaatggatg ctgttccaac catttttgat ttttgtacct atataaagtc tatgaaactc 540
aagtcaagga atcttttgaa gaaaaacaac agttgtttct cagctggacc atctaattta 600
aatcaaaaca ttagtagtca gcaagtacta cttgaacaca gctatgcctt taggaatcct 660
atggaggcaa aaaagaggat cattaaactg gaaaaagaaa tagcaagctt aagaagaaaa 720
atgaaaactt gcctacaaaa ggaacgcaga gcaactcgaa gatggatcaa agccacgtgt 780
ttggtaaaga atttagaagc aaatagtgtt ttacctaaag gtacatcaga acacatgtta 840
ccaactgcct taagcagtc tcttttgaa gatttttaaga tccttgaaca agatcaacaa 900
gataaaacac tgctaagtc aaatctaaaa cagaccaaga gtaccttcac ttaaatttag 960
cttgcacaga gcttgatgcc tatccttcac tcttttcaga agtaaagata attatggcac 1020
tratgccaaa attcattatt taataaagtt ttacttgaag taacattact gaatttgtga 1080
agacttgatt acaaaagaat aaaaaacttc atatggaaat tttattcgaa aatgagtggg 1140
agtgccttac attagaatta cggactttca aaactatgat aa 1182

```

<210> 49

<211> 1676

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1384286

<400> 49

```

tcgccgagcc cgcccgccgc cgccatggcc accacggtga cctgcacccg cttcaccgac 60
gagtaccagc tctacgagga tattggcaag ggggctttct ctgtggtccg acgctgtgtc 120
aagctctgca ccggccatga gtatgcagcc aagatcatca acaccaagaa gctgtcagcc 180
agagatcacg agaagctgga gagagaggct cggtatctgcc gccttctgaa gcattccaac 240
atcgtgctgc tccacgacag catctccgag gagggtctcc actacctggt cttcgatctg 300
gtcactggty gggagctctt tgaagacatt gtggcgagag agtactacag cgaggctgat 360
gccagtcact gtatccagca gatcctggag gccgttctcc attgtcacca aatgggggtc 420
gtccacagag acctcaagcc ggagaacctg cttctggcca gcaagtcaa aggggctgca 480
gtgaagctgy cagacttcgg cctagctatc gagytgcagg gggaccagca ggcattggtt 540
ggtttcgctg gcacaccagg ctacctglcc cctgaggctc ttcgcaaaga ggcgtacggc 600
aagcccgtyg acatctgggc atgtggggtg atcctgtaca tctgtctcgt gggctaccca 660
cccttctggg acgaggacca gcacaagctg taccagcaga tcaaggctgg tgcctatgac 720
ttcccgtccc ctgagtggga caccgtcact cctgaagcca aaaacctcat caaccagatg 780
ctgaccatca accctgccaa gcgcatacaca gcccatgagg ccctgaagca cccgtgggtc 840
tgccaacgct ccacggtagc atccatgatg cacagacagg agactgtgga gtgtctgaaa 900
aagttcaatg ccaggagaaa gctcaaggga gccatcctca ccaccatgct ggccacacgg 960
aatttctcag cagccaagag ttactcaac aagaaagcag atggagtcaa gcccatacag 1020
aatagacca aaaacagtgc agccgccacc agccccaaag ggacgnttc tctgccgcc 1080
ctggagtctt ctgacagtgc caataccacc atagaggatg aagacgctaa agcccggaag 1140
caggagatca ttaagaccac ggagcagctc atcgaggccg tcaacaacgg tgactttgag 1200
gcttacgcga aaatctgtga ccagggctg acctcgtttg agcctgaagc actgggcaac 1260
ctggttgaag ggatggactt ccacagattc tacttcgaga acctgctggc caagaacagc 1320
aagccgatcc acacgaccat cctgaaccca cagtgccagc tcattggaga ggatgccgcc 1380
tgcctcgtgt acatccggct cagcagtagc attgacgggc agggccggcc ccgaccagc 1440
cagtctgagg agaccgcgt gtggcacccg cgcgacggca agtggcagaa cgtgcacttc 1500
cactgctcgg gcgcgctgt ggccccgctg cagtgaagag ctgcgccttg gtttcgcgg 1560
acagagttgy tgtttggagc ccgactgcc tggggcacac ggcttgctg tgcgatgttt 1620
gtgtctgctt cgttccctcc cctggtgcct gtgtctgcag aaaaacaagc ccgact 1676

```

<210> 50

<211> 1597

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 1512656

<400> 50

```

tcggccttcg gaaagacccc cggggccgggg caccggagaga gccgagcgcc gcagccgtga 60
gcccgaataga gccggagaga cccgagtatg accggagaag cccaggccgg ccggaagagg 120
agccgagcgc ggccggaagg aaccgagccc gtccgaaggg agcggacgca gcctggcctg 180
ggggcccggtc gagcccgcc catggcggcc gaggcgacag ctgtggccgg aagcggggct 240
gttggcggtc gcctggccaa agacggcttg cagcagtcta agtgcccgga cactacccca 300
aaacggcggc gcgcctcgtc gctgtcgcgt gacgccgagc gccgagccta ccaatgggtc 360
cgggagtact tgggcggggc ctggcgccga gtgcagcccc aggagctgag ggtttacccc 420

```

```

gtgagcggag ggcctcagcaa cctgctcttc cgtgctctgc tcccggacca cctgcccagc 480
gttggcgag agccccggga ggtgcttctg cggctgtacg gagccatctt gcaggcgctg 540
gactccctgg tgctagaaag cgtgatgttc gccatacttg cggagcggtc gctggjggcc 600
cagctgtacg agtcttcccc agagggcgg ctggaacagt acatcccaag tcggccattg 660
aaaactcaag agcttcgaga gccagtgttg tcagcagcca ttgccacgaa gatggcgcaa 720
tttcatggca tggagatgcc ttccaccaag gagccccact ggctgtttgg gaccatggag 780
cggtaacctaa aacagatcca ggacctgccc ccaactggcc tccctgagat gaacctgctg 840
gagatgtaca gctgaagga tgagatgggc aacctcagga agttactaga gtctacccca 900
tcgccagtcg tcttctgcca caatgacatc caggaaggga acatcttgct gctctcagag 960
ccagaaaatg ctgacagcct catgctgggt gacttcgagt acagcagtta taactatagg 1020
ggctttgaca ttgggaacca tttttgtgag tgggtttatg attatactca cgaggaaatg 1080
cctttctaca aagcaaggcc cacagactac cccactcaag aacagcagtt gcattttatt 1140
cgtcattacc tggcagaggc aaagaaaggc gagacctct cccaagagga gcagagaaaa 1200
ctggaagaag atttgctggg agaagtcagt cggtatgctc tggcatccca tttctctgg 1260
ggtctgtggg ccatcctcca ggcatccatg tccaccatag aatttggtta cttggactat 1320
gcccagtcct gggtccagtt ctacttcag cagaaggggc agctgaccag tgtccactcc 1380
tcactctgac tccacctcc cactccttgg atttctctg gagcctccag ggcagyacct 1440
tggaggggag aacacggagc agaaggccct ggcgactggg ctgagcccc aagtgaacct 1500
gaggttcagg agaccggcct gttcctgagt ttgagttagt ccccatggct ggcaggccag 1560
agccccgtgc tgtgtatgta acacaataaa caagctg 1597

```

<210> 51

<211> 2145

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2098635

<400> 51

```

cccacgcgtc cggacagctt gaccagttt gctttccaat caaagggcct ttatcttgaa 60
tgtctctttt tggcgcaaga gccaacgcaa aaatgatggc ggcttacaat ggcggtacac 120
ctgcagcagc agcaggtcac caccaccacc atcaccacca ccttccacac ctccctctc 180
ctcacctgct tcaccaccac cacctcaac accatcttca tccggggctc gctgccctg 240
tacacctgt acagcagcac acctcttcgg cagctgcggc agccgcagca gcggctgcag 300
ctgcagccat gttaaaccct gggcaacaac agccatattt cccatcaccg gcaccggggc 360
aggctcctgg accagctgca gcagccccag ctcaggtaca ggctgccgca gctgctacag 420
ttaaggcgca ccatcatcag cactcgcctc atccacagca gcagctggat attgagccg 480
atagacctat tggatatgga gcctttgggt ttgtctgggt agtaacagat ccaagagatg 540
gaaagagagt agcgtcctaaa aagatgcccc acgtcttcca gaatctggct tcttgcaaaa 600
gggtcttccg ggaattgaag atgttggttt tttttaagca tgataatgta ctctctgcc 660
ttgacatact ccaacctcca cacattgact attttgaaga aatacatgth gtcacagaat 720
tgatgcagag tgacctacat aaaattatcg tctctctca accactcagc tcagatcatg 780
tcaaagtctt tctttatcag attttgcgag gtttgaata tctccattca gctggcattt 840
tacatcgaga cattaagcca gggaatctcc ttgtgaacag caactgtgtt ctaaagattt 900
gtgatttttg attggccaga gtggaagagt tagatgaatc ccgtcalatg actcaggaag 960
ttgttactca gtattatcgg gctccagaaa tectgatggg cagccgtcat tacagcaatg 1020
ctattgacat ctggctctgt ggatgtatct ttgcagaact actaggacga agaattattg 1080
ttcaggcaca ggtcccatt cagcagtttg atttgatcac ggatctgttg ggcacaccat 1140
cactggaagc aatgaggaca gcttgtgaag gcgctaaggc acatatactc aggggtctc 1200
ataaacagcc atctcttctt gtactctata cctgtctag ccaggctaca catgaagctg 1260
ttcatctctt ttgcaggatg ttggtctttg atccatccaa aagaatatcc gctaaggatg 1320
ccttagacca cccctacct gatgaagggc gactacgata tcacacatgt atgtgtaaat 1380
gttgcttttc cactccact ggaagagttt ataccagtga ctttgagcct gtcaccaatc 1440

```

```

ccaaatttga tgacactttc gagaagaacc tcagttctgt ccgacagggt aaagaaatta 1500
ttcatcagtt catthttggaa cagcagaaaag gaaacagagt gcctctctgc atcaaccctc 1550
agtctgctgc ttttaagagc tttattagtt ccactgttgc tcagccatct gagatgcccc 1620
catctcctct ggtgtgggag tgatggtgga agataatgta ctactgaaga tgtaatgtag 1680
ctttccactg gagtctggga tttgcaattc tggagggttaa tcatgcttgt actgtaattt 1740
tactaatgaa gtttttaatt aacaaccact acttgtatga tatgaataat atttagaaat 1800
gttactagac ttttaatctt gtaaagtggg tgtgctttta gaagaaaaat atttttacca 1860
gagttgcaca tgttttatga atttagtgca gctgttatgg ctcacctcag aacaaaagag 1920
aattgaacca aatttgggag tttgggggtt tatgttttgt ttttcttttc taaaatgaag 1980
tgagattgtt cacacacaca cacacacaca cacacacaca cacaaacaca aaggacagtc 2040
atacatthttg atatttgagc cattcctaaa gatttggggg tttctaaaac taaagaatct 2100
aggaaccttg cctgcgacca atcatggagc cacgtgagct gatcg 2145

```

<210> 52

<211> 1454

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2446646

<400> 52

```

gggttcgaat tgcaacggca gctgcggggc gtatgtgttg gtgctagagg cagctgcagg 60
gtctcgctgg gggccgctcg ggaccaattt tgaagaggtt ctgggccacg acttattttc 120
acctccgacc tttccttcca ggcggtgaga ctctggactg agagtggctt tcacaatgga 180
agggatcagt aatttcaaga caccaagcaa attatcagaa aaaaagaaat ctgtattatg 240
tccaactcca actataaata tcccggcctc tccgtttatg cagaagcttg gctttggtac 300
tggggtaaat gtgtacctaa tgaaaagatc tccaagaggt ttgtctcatt ctccctgggc 360
tgtaaaaaag attaatccta tatgtaatga tcattatcga agtgtgtacc aaaagagact 420
aatggatgaa gctaagattt tgaaaagcct tcatcatcca aacattgttg gttatcgtgc 480
ttttactgaa gccaatgatg gcagtctgtg tcttgctatg gaatatggag gtgaaagtc 540
tctaaatgac ttaatagaag aacgatataa agccagccaa gatccttttc cagcagccat 600
aattttaaaa gttgctttga atatggcaag agggttaaag tatctgcacc aagaaaagaa 660
actgcttcat ggagacataa agtcttcaaa tgttgtaatt aaaggcgatt ttgaaacaat 720
taaaatctgt gatgtaggag tctctctacc actggatgaa aatatgactg tgactgaccc 780
tgaggcttgt tacattggca cagagccatg gaaacccaaa gaagctgttg aggagaatgg 840
tgttattact gacaaggcag acatatttgc ctttggcctt actttgtggg aaatgatgac 900
tttatcgatt ccacacatta atctttcaaa tgatgatgat gatgaagata aaacttttga 960
tgaaagtgat tttgatgatg aagcatacta tgcagcgttg ggaactaggc cacctattaa 1020
tatggaagaa ctggatgaat cataccagaa agtaattgaa ctcttctctg tatgcactaa 1080
tgaagacctt aaagatcgtc cttctgctgc acacattgtt gaagctctgg aaacagatgt 1140
ctagtgatca tctcagctga agtgtggctt gcgtaaaataa ctgtttattc caaaatattt 1200
acatagttac tatcagtagt tattagactc taaaattggc atatttgagg accatagttt 1260
cttgtaaca tatggataac tatttcta atgaaaatg ctatattgg ctataagcac 1320
ttggaattgt actgggtttt ctgtaaagtt ttagaaacta gctacataag tactttgata 1380
ctgctcatgc tgacttaaaa cactagcagt aaaacgctgt aaactgtaac attaaattga 1440
atgaccatta cttt 1454

```

<410> 54

<411> 3125

<412> DNA

<413> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2764911

<400> 53

```

tggagcaggg ggcggtttgg ttgcgcggta ctacgcgtgc ccgccgaatg gggaggaggc 60
gaggagcgag ccgtgcggcc agagcgggaa agagactcgc ctttgcgtcc gagttctgga 120
gccgccgcac ccgcactcct gggggccgcgg cagcggctgc gaggggacgg gcgtccgctg 180
tctcctgggt tccctcgtg gcgacccgcg ggatcggaaa aaaaggagaa gatggaggag 240
gagggtggca gcagcggcgg cgcgcgggg accagcgcgg acggcggcga cggaggagag 300
cagctcctca ctgtcaagca cgagctgcgg actgctaatt tgacaggaca tgctgagaag 360
gtgggaatag aaaattttga gtcctgaag gtcctaggaa ctggagctta tggaaaagta 420
tttctagttc gtaaaataag tggccatgat actggaaaagc tgtatgccat gaaagttttg 480
aaaaaggcaa caatcgttca aaaggccaaa accacagagc atacaaggac agaacgacaa 540
gtcctggaac acattaggca gtcgccattt ttggtaacat tacattatgc tttccagaca 600
gaaaccaaac ttcactctcat tttagattat ataaatgggt gtgaactttt taccatctt 660
tctcaaagag agcgtttcac agagcatgag gtgcagattt atgttggaga gatttgtctt 720
gccctcgaac atctccacaa gttggggatt atatatcgtg atactaagct tgagaatatt 780
ctacttgatt ctcaatggca tgtggtgctg acagattttg gtcctgagta ggagtttgtg 840
gctgatgaaa ctgaaagagc atattccttt tgtggaaacta ttgaatacat ggcaccagat 900
attgtcagag ggggagattc aggacatgac aaggcagttg actggtggag tttgggtgtt 960
ctaattgatg aattactaac tggagcatct cctttcactg ttgatggaga aaaaaattcc 1020
caagctgaga tatctaggag aatattaaaa agtgagcctc catatcccca agaaatgagt 1080
gctttagcga aagacctaat tcagcgtctt ttgatgaaag atcccaagaa gagattggga 1140
tgtgtgccac gtgatgcaga tgaaatcaaa gaacatctct tctttcagaa aataaattgg 1200
gatgatttag ccgccaaaaa agtgccctga ccatttaagc cagtcattcg agatgaatta 1260
gatgtgagta accttgcaga agagttcaca gaaatggatc ccacttatte tccgcgagcc 1320
ctgccccaga gttctgagaa gcgtttcag ggctattcct ttgttgctcc tcccatccta 1380
ttcaagcgta atgcagctgt catagaccct cttcagtttc acatgggagt tgaacgtcct 1440
ggagtgacaa atgttgcag gagtgcaatg atgaaggact ctccattcta tcaacactat 1500
gacctagatt tgaaggacaa acccctggga gaaggtagtt tttcaatttg tcgaaagtgt 1560
gtgcataaaa aaagtaacca agctttttgca gtcaaaaataa tcagcaaaaag gatggaagcc 1620
aataactcaa agyaaataac agctctggaa ctctgtgaag gacaccccaa tattgtgaag 1680
ttgcatgaag tttttcatga tcagcttcac acgtttctag tgatggaaact tctgaatgga 1740
ggagaactgt ttgagcgcac taagaaaaag aagcacttca gtgagacgga agccagctac 1800
atcatgagga agcttgtttc agctgtaagc cacatgcacg atgttggagt ggtgcacagg 1860
gatctgaaac ctgagaattt attgttcacc gatgaaaatg acaatttgga aattaaaaata 1920
attgattttg gatttgcacg gctaaaacca ccggataatc agccctgaa gactccatgc 1980
ttcacccttc attatgccgc ccagagctc ttgaatcaga acggctacga tgagtcctgt 2040
gacctgtgga gcttgggctt cttttgttac acaatgttgt caggacaggt tcccttccaa 2100
tctcatgacc gaagtttgac gtgtaccagc gcggtggaaa tcatgaagaa aattaaaaag 2160
ggagatttct cctttgaagg agaagcctgg aagaatgtat cccaagaggc taaagatttg 2220
atccaaggac ttctcacagt agatccaaac aaaaggctta aaatgtcttg cttgaggtag 2280
aatgaatggc tacaagatgg aagtcagctg tctccaatc ctctgatgac tccggatatt 2340
ctaggatctt ccggagctgc cgtgcatacc tgtgtgaaaag caaccttcca cgcctttaac 2400
aaatacaaga gagaggggtt ttgccttcag aatgttgata aggccctttt ggctaagaga 2460
agaaaaatga aaaagactag caccagtacc gagacacgca gcagttccag tgagagttcc 2520
cattcttctt cctctcattc tcacggtaaa actacacca ccaagacact gcagcccagc 2580
aatcctgccg acagcaataa cccggagacc ctcttccagt tctcggactc agtagcttag 2640
gcatggtagg agtgtatcag tgatccattg cacctttatt cctcagcat atgcctgagg 2700
cgatctttta tgccttttaa aatgtttccc gttggtctca ttggaatctg cctcctaatt 2760
athtttttca ggaaaacctg tttggttacc ctcatcctaa agcactggac agagaatgtt 2820
actgtgaata gagcacatat tactcttttt agcaacctag catgatgcca acaagactat 2880
tcttgaaaga gcaaaggttc ctgtaaatat aattagggct agatttgagc tgcttgaag 2940
tcacaggttt tccagatgtc tgccaacaag aaatgactca tactgtgatg ataccttttg 3000
ctttgccttg tggacaatgt gggtttttga aatttgcacc cttcaaaacaa tgatttatca 3060

```

```

gagaaaagggg tctgttttca aaaaagattc tgtaatgaat tttatgtgtg gcatatactt 3120
atttccttgag agaagatttt aacttattgt ttttatttta tggttacata tgatgataac 3180
ctgctattat taaacttttt ctaaaaagtg aaaaaaaaaa aaaaa 3225

```

<210> 54

<211> 2110

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2013946

<400> 54

```

tcgccgagcc cgtccgccgc cgccatggcc accacgggtga cctgcacccg cttcaccgac 60
gagtaccagc tctacgagga tattggcaag ggggctttct ctgtgggtccg acgctgtgtc 120
aagctcttga ccggccatga gtatgcagcc aagatcatca acaccaagaa gctgtcagcc 180
agagatcacc agaagctggg gagagaggct cggatctgcc gccttctgaa gcattccaac 240
atcgtgcgtc tccacgacag catctccgag gagggcttcc actacctggt cttcgatctg 300
gtcactgggt gggagctctt tgaagacatt gtggcgagag agtactacag cgaggctgat 360
gocagtcact gtatccagca gatcctggag gccgttctcc attgtcacca aatgggggtc 420
gtccacagag acctcaagcc ggagaacctg cttctggcca gcaagtgcaa aggggctgca 480
gtgaagctgg cagacttcgg cctagctatc gaggtgcagg gggaccagca ggcattggtt 540
ggtttctgctg gcacaccagg ctacctgtcc cctgaggtcc ttcgcaaaga ggcgtatggc 600
aagcctgtgg acatctgggc atgtgggggt atcctgtaca tctgtctcgt gggctacca 660
cccttctggg acgaggacca gcacaagctg taccagcaga tcaaggctgg tgcctatgac 720
ttccctctcc ctgagtgagg caccgtcact cctgaagcca aaaacctcat caaccagatg 780
ctgaccatca acctgccaa gcgcatacaca gcccatgagg cctgaagca cccgtgggtc 840
tgccaacgct ccacggtagc atccatgatg cacagacagg agactgtgga gtgtctgaaa 900
aagttcaatg ccaggagaaa gctcaaggga gccatcctca ccaccatgct ggccacacgg 960
aatttctcag ccaagagttt actcaacaag aaagcagatg gactcaagcc ccagacgaat 1020
aycaccaaaa acagtgcagc cgccaccagc cccaaaggga cgcttctctc tgccgccctg 1080
gagcctcaaa ccaccgtcat ccataaccca gtggacggga ttaaggagtc ttctgacagt 1140
gccaatacca ccatagagga tgaagacgct aaagcccca ggggtcccca catcctgagc 1200
tcagttagga ggggctcggg agccccagaa gccgaggggc cctgcccctg cccatctccg 1260
gtcccttttg gccccctgcc agctccatcc cccaggatct ctgacatcct gaactctgtg 1320
agaagggggt caggaacccc agaagccgag gggccccctc cagcgggggc cccgccctgc 1380
ctgtctccgg ctctcctagg ccccctgtcc tccccgtccc ccaggatctc tgacatcctg 1440
aactctgtga ggaggggctc agggacccca gaagccaagg gcccctcgcc agtggggccc 1500
ccgccctgcc catctccgac tatccctggc cccctgccc ccccatcccc gaagcaggag 1560
atcattaaga ccacggagca gtcacatcag gccgtcaaca acggtgactt tgaggcctac 1620
gcgaaaatct gtgaccagag gctgacctcg tttgagcctg aagcactggg caacctgggt 1680
gaaggggatg acttccacag attctacttc gagaacctgc tggccaagaa cagcaagcca 1740
atccacacga ccatacctgaa cccacacgtg caggtcattg gagaggatgc cgcctgcac 1800
gtttacatcc ggctcacgca gtacattgac gggcagggcc ggccccgcac cagccagtct 1860
gaggagaccc gcgtgtggca ccgcgcgcac ggcaagtggc agaattgtga cttccactgc 1920
tcgggcgcgc ctgtggcccc gctgcagtga agagctgcgc cctggtttcg ccggacagag 1980
ttggtgtttg gagcccgact gccctcgggc acacggcctg cctgtcgcac gtttgtgtct 2040
gctcgttcc ctcccctggg gcctgtgtct gcagaaaaac aagaccagat gtgatttgtt 2100
aaaaaaaaa 2110

```

<210> 55

<211> 2140

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 067967

<400> 55

```

gtgcgctgag ctgcagtgct tggtcgagag taccctgtggg agcgtcgcgc cgcggaggca 50
gccgtcccg cgtaggtggc gtggccgacc ggaccccaaa ctggcgccctc tccccgcgcg 120
gggtcccgag ctaggagatg ggaggcacag ctctgtggg ccggcggaag gatgcggggc 180
cgccctggggc cgggctcccc cccagcagc ggaggttggg ggatggtgtc tatgacacct 240
tcatgatgat agatgaaacc aaatgtcccc cctgttcaaa tgtactctgc aatccttctg 300
aaccaccttc acccagaaga ctaaatatga ccactgagca gtttacagga gatcatactc 360
agcacttttt ggatggaggt gagatgaagg tagaacagct gtttcaagaa tttggcaaca 420
gaaaatccaa tactattcag tcagatggca tcagtgaact tgaaaaatgc tctcctactg 480
tttctcaggg taaaagtcca gattgcttga atacagtaaa atccaacagt tcatccaagg 540
cacccaaagt ggtgcctctg actccagaac aagccctgaa gcaatataaa caccacctca 600
ctgcctaatg gaaactggaa ataattaatt atccagaaat ttactttgta ggtccaaatg 660
ccaagaaaag acatygagtt attggtggtc ccaatcaatg agggatgat gatgcagatg 720
gggcctatat tcatgtacct cgagaccatc tagcttatcg atatgagggt ctgaaaatta 780
ttggcaaggg gagtttttgg caggtggcca gggcttatga tcacaaactt cgacagtacg 840
tgccctctaa aatggtgcgc aatgagaagc gctttcatcg tcaagcagct gaggagatcc 900
ggatttttga gcatcttaag aaacaggata aaactggtag tatgaacgtt atccacatgc 960
tggaagttt cacattccgg aaccatgttt gcatggcctt tgaattgctg agcatagacc 1020
tttatgagct gattaaaaaa aataagtttc aggtttttag cgtccagttg gtacgcaagt 1080
ttgccagtc catcttgcaa tctttggatg cctccacaa aaataagatt attcactgcg 1140
atctgaagcc agaaaacatt ctctgaaac accacgggcy cagttcaacc aaggtcattg 1200
actttgggtc cagctgtttc gagtaccaga agctctacac atatatccag tctcggttct 1260
acagagctcc agaaatcatc ttaggaagcc gctacagcac accaattgac atatggagtt 1320
ttggctgcat ccttgcaaaa cttttaacag gacagcctct cttccctgga gaggatgaag 1380
gagaccagtt ggcctgcatg atggagcttc tagggatgcc accaccaaaa cttctggagc 1440
aatccaaacg tgccaagtac tttattaatt ccaagggcat accccgctac tgctctgtga 1500
ctaccaggc agatgggagg gttgtgcttg tggggggtcg ctacgtagg ggtaaaagc 1560
ggggctcccc aggcagcaaa gactggggga cagcactgaa aggggtgtgat gactacttgt 1620
ttatagagtt ctgaaaagg tgtcttact gggacccctc tgcccgcttg accccagctc 1680
aagcattaag acacccttgg attagcaagt ctgtccccag acctctcacc accatagaca 1740
aggtgtcagg gaaacgggta gttaatcctg caagtgtttt ccagggattg ggttccaagc 1800
tgctccagt tgttgaata gccaaataagc ttaaagctaa cttaatgtca gaaaccaatg 1860
gtagtatacc cctatgcagt gtattgcaa aactgattag ctagtggaca gagatatgcc 1920
cagagatgca tatgtgtata tttttatgat cttacaaacc tgcaaatgga aaaaatgcaa 1980
gcccattggt ggatgttttt gttagagtag acttttttta aacaagacaa aacattttta 2040
tatgattata aaagaattct tcaagggcta attacctaac cagcttgtat tggccatctg 2100
gaatatgcat taaatgactt tttataggtc aaaaaaaaaa 2140

```

<210> 56

<211> 1723

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 346275

<400> 56

```

gacagacaaa gcgccgccac gcgtccgcat gtcggatgtt tgtagcagtc agagagcaga 60

```

```

acatgagcat ctgccagggtc tggttccccc accatcaggg atggggagtga gaaagggggag 120
tccccctctg aagagccacc cctgcaggga gaaatctgtc tccaacagga gatctgggaa 180
gaccatagtg agaagtgtctg tcgaagaggt ccgcacagcg ggccctttcc gaagtgggtt 240
tagcgaayag aaggcaactg gcaagctctt tgctgtgaag tgatcccta agaaggcgct 300
gaagggcaag gaaagcagca tagagaatga gatagccgtc ctgagaaaaga ttaagcatga 360
aaatattgtt gccctggaag acatttatga aagcccaaat cacctgtact tggtcatgca 420
gctggtgtcc ggtggagagc tgtttgacgg gatagtggag aaggggtttt atacagagaa 480
ggatgccagc actctgatcc gccaaagtctt ggacgccgtg tactatctcc acagaatggg 540
catcgtccac agagacctca agcccgaaaa tctcttgtag tacagtcaag atgaggagtc 600
caaaataatg atcagtgtact ttggattgtc aaaaatggag ggcaaaggag atgtgatgtc 660
cactgcctgt ggaactccag gctatgtcgc tctggaagtc ctgcgccaga aaccttacag 720
caaagccgtt gactgctggt ccatcggagt gattgcctac atcttgcctt gcggctaccc 780
tccctttttat gatgaaaatg actccaagct ctttgagcag atcctcaagg cggaatatga 840
gtttgactct cctactggtg atgacatctc cgactctgca aaagacttca ttcggaacct 900
gatggagaag gacccgaata aaagatacac gtgtgagcag gcagctcggc acccatggat 960
cgtcgtgtgac acagccctca acaaaaaacat ccacgagtcg gtcagcggcc agatccggaa 1020
aaactttgcc aagagcaaat ggagacaagc atttaatgcc acggccgtcg tgagacatat 1080
gagaaaaacta cacctcggca gcagcctgga cagttcaaat gcaagtgttt cgagcagcct 1140
cagtttgccc agccaaaaag actgtgcgta tgtagcaaaa ccagaatccc tcagctgaca 1200
ctgaagacga gcctggggtg gagaggagg agccggcatc tgccgagcac ctctgttttg 1260
ccaggcgctt tctatactta atcccatgtc atgcgaccct aggacttttt ttaacatgta 1320
atcactgggc cgggtgcagt ggctcacgcc tgtaatccca acactttggg aggctgaggc 1380
aggaggactg tttgagttca ggagttttaa gaccagcctg accaacatgg tgaaacccca 1440
tctctactaa aatataaaaa ttagccgggt gtggtggcga gcacctgtaa tgtagctac 1500
ttgggaggct gaggcaggag aatcacctga acccaggaag cggagggttc aatgagctga 1560
gatcacacca ctgcactcca gcctgggtga cagattgaga ctccctctca aaaaaaaaag 1620
ggaaatcatt gaacactcgt ggaaccctag gtattgcata ttccatttac ggtttgggaa 1680
tccagggctc aagtcctcgc aggggtaccg agctcgagat cgtaatca 1728

```

<210> 57

<211> 1610

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 283746

<400> 57

```

gtgcctctg aaggagaacc attttccatc tctttcatag ttttttcccc cagtcagcgt 60
ggtagcggta ttctccgcgg cagtgcagct aattgttttt gcctcttttag ccaagacttc 120
cgccctcgat caagatgggtg gttggacggc cttcctaacc tttacggggc ctggcggtgc 180
tgacgcctga gctggtaggg gtggagcagg taggaaacag caaatgcaga agctgctgcg 240
cggaagtcgg ccatggactg gaaagaagtt cttcgtcggc gcctagcgac gccaacacc 300
tgtccaaaca ctgcctgctg aagatgaagt cttactacag aaattaagag aggaatcaag 360
agctgtcttt ctacaaagaa aaagcagaga actgttagat aatgaagaat tacagaactt 420
atggtttttg ctggacaaac accagacacc acctatgatt ggagaggaag cgatgatcaa 480
ttacgaaaac tttttgaagg ttggtgaaaa ggctggagca aagtgcgaagc aattttttcac 540
agcaaaagtc tttgctaaac tctttcatac agattcatat ggaagaattt ccatcatgca 600
gttctttaat tatgtcatga gaaaagtttg gcttcacaa acaagaatag gactcagttt 660
atatgatgtc gctgggcagg ggtaccttcg ggaatctgat ttagaaaact acatattgga 720
acttatccct acgttgccac aattagatgg tctggaaaaa tctttctact ccttttatgt 780
ttgtacagca gtttaggaag tcttcttctt ttagatcct ttaagaacag gaaagataaa 840
aattcaagat atttttagcat gcagcttctt agatgattta ttggagctaa gggatgagga 900

```

```

actgtccaag gagagtcaag aaacaaattg gttttctgct ctttctgccc taagagttta 950
tggccagtag ttgaatcttg ataaagatca caatggcatg ctacgtaaaag aagaactctc 1020
acgttatgga acagctacca tgaccaatgt cttcttagac cgtgttttcc aggagtgtct 1080
cacttatgat ggagaaatgg actataagac ctacttggac tttgtccttg cattagaaaa 1140
cagaaaggaa cctgcagctc tacaatatat tttcaaactg cttgatattg agaacaaagg 1200
atacctgaat gtctttttcac ttaattatit ctttagggcc atacaggaac taatgaaaaat 1260
ccatygacaa gatcctgttt catttcaaga tgtcaaggat gaaatctttg acatggtaaa 1320
accaaaggat cttttgaaaa tctctcttca ggatttaatc aacagtaatc aaggagacac 1380
agtaaccacc attctaactg atitgaatgg cttctggact tacgagaaca gagaggctct 1440
tggtgcaaat gacagtgaaa actctgcaga ctttgatgat acatgatctc tgaaagacta 1500
gactgtctta tattatgaga tacttgaatg ctgcatgtaa agccttttaa gcaaaatcct 1560
cagaaatggt ctaaataaaa cacttgatat gcctagagaa aaaaaaaaaa 1610

```

<210> 58

<211> 1290

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2696537

<400> 53

```

ccggctcccg ccgggaagtt ccaggccgcc gcacagaaag ccctgccctc caccgccgggt 60
ctctggagcg ccttgggttg cccggccggt ccctgccgct gacttggtga cactgcgagc 120
actcagtcgc tcccgcgcg cccctccccg cccgcscgc cgtcctcct ccctgtaaca 180
tgccatagtg cgctgcgac cacacggccg gggcgctagc gttcgcttc agccaccatg 240
gggaatggga tgaacaagat cctgcccggc ctgtacatcg gcaacttcaa agatgccaga 300
gacgcggaac aattgagcaa gaacaagggt acacatatc tgtctgtcca tgatagtgcc 360
aggcctatgt tggagggagt taaatacctg tgcacccag cagcggatc accatctcaa 420
aacctgacaa gacatttcaa agaaagtatt aaattcattc acgagtgcg gctccgcggt 480
gagagctygc ttgtacactg cctggccggg gtctccagga gcgtgacact ggtgatcgca 540
tacctcatga ccgtcaactg ctttggtcgg gaggatgccc tgcacaccgt gcgtgctggg 600
agatcctgtg ccaaccccaa cgtgggcttc cagagacagc tccaggagtt tgagaagcat 660
gaggtccatc agtatcggca gtggctgaag gaagaatatg gagagagccc tttgcaggat 720
gcagaagaag ccaaaaaacat tctggccgct ccgggaattc tgaagttctg ggcctttctc 780
agaagactgt aatgtacctg aagtttctga aatattgcaa acccacagag tttaggctgg 840
tgctgccaaa aagaaaagca acatagagtt taagtatcca gtagtgattt gtaaaacttg 900
ttttcatttg aagctgaata tatacgtagt catgtttatg ttgagaacta aggatattct 960
ttagcaagag aaaatatttt ccccttatcc ccactgctgt ggaggtttct gtacctcgct 1020
tggatgcttg taaggatccc gggagccttg ccgcaactgc ttgtgggtgg cttggcgctc 1080
gtgattgctt cctgtgaacg cctcccaagg acgagcccag ttagattgtg tggcgtgaac 1140
tctgccctg tgttctcaaa ttccccagct tgggaaatag cccttggtgt gggttttatc 1200
tctggtttgt gttctccgtg gtggaattga ccgaaagctc tatgttttct ttaataaagg 1260
gcaacttagc caagttttaa aaaaaaaaaa 1290

```

<210> 59

<211> 2381

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 551178

<400> 59

```

tgatgatcca gatgttaaag cacaagtgga agtgcctgtcc gctgcactac gtgcttccag 60
cctggatgca catgaagaga ccatcagtat agaaaagaga agtgatttgc aagatgaact 120
ggatataaat gagctaccaa attgtaaaat aaatcaagaa gattctgtgc ctttaatcag 180
cgatgctgtt gagaatatgg actccactct tcaactatatt cacagcgatt cagacttgag 240
caacaatagc agtttttagcc ctgatgagga aaggagaaact aaagtacaag atgttggtacc 300
tcaggcggtt ttatagtcagt atttatctat gactgacctt tctcgtgcac agacggttga 360
cactgaaatt gctaagcact gtgcatatag cctccctggt gtggccttga cactcggaag 420
acagaattgg cactgcctga gagagacgta tgagactctg gcctcagaca tgcagtggaa 480
agttcgacga actctagcat tctccatcca cgagcttga gttattcttg gagatcaatt 540
gacagctgca gatctggttc caatttttaa tggattttta aaagacctcg atgaagtcag 600
gatagggtgt cttaaacact tgcattgattt tctgaagcct cttcatattg acaaaagaag 660
agaatatctt tatcaacttc aggagttttt ggtgacagat aatagtagaa attggcgggt 720
tcgagctgaa ctggctgaac agctgatttt acttctagag ttatatagtc ccagagatgt 780
ttatgactat ttacgtccca ttgctctgaa tctgtgtgca gacaaagttt cttctgttcg 840
ttggatttcc tacaagtttg tcagcgagat ggtgaagaag ctgcacgcgg caacaccacc 900
aacgttcgga gtggacctca tcaatgagct tgtgagaaac tttggcagat gtcccaagtg 960
gtctggtcgg caagcctttg tctttgtctg ccagactgtc attgaggatg actgccttcc 1020
catggaccag ttgtctgtgc atctcatgcc gcattctgcta acctagcaa atgacagggt 1080
tcctaacgtg cgagtgtgct ttgcaaagac attaaagaaa actctactag aaaaagacta 1140
tttcttggtc tctgccagct gccaccagga ggctgtggag cagaccatca tggctcttca 1200
gatggaccgt gacagcgatg tcaagtattt tgcaagcctc caccctgcca gtacccaaat 1260
ctccgaagat gccatgagca cagcgctctc aacctactag aaggcttgaa tctcggtgtc 1320
tttctgtctt ccatgagagc cgaggttcag tgggcattcg ccacgcattg gacctgggat 1380
agctttcggg ggaggagaga ccttctctct ctgcggactt cattgcagggt gcaagttgcc 1440
tacaccaaat accagggatt tcaagagtca agagaaagta cagtaaaccac tattatctta 1500
tcttgacttt aaggggaaat aatttctcag aggattataa ttgtcaccga agccttaaat 1560
ccttctgtct tctgactga atgaactctt aattggcaga gcattttcct tatggaaggg 1620
atgagattcc cagagacctg cattgctttc tctggtttt atttaacaat cgacaaatga 1680
aattcttaca gcctgaaggc agacgtgtgc ccagatgtga aagagacctt cagtatcagc 1740
cctaactctt ctctcccagg aaggacttgc tgggctctgt ggccagctgt ccagcccagc 1800
cctgtgtgtg aatcgtttgt gacgtgtgca aatgggaaag gaggggtttt tacacttctc 1860
aaaggacctg atgccaacac aagtaggatt gacttaaaact ctttaagcga gcatactgtc 1920
gtacacattt acagaatggt tgcctgagtg ctgtgtctga ttttttcatg ctggtcatga 1980
cctgaaggaa atttattaga cgtataatgt atgtctgtgt tttttaactt gatcatgac 2040
agctctgagg tgcaacttct tcacatactg tacataacct tgaccactct tgggagtgtc 2100
gcagtcttta atcatgctgt ttaaaactgt gtggcacaag ttctcttctc caaataaaat 2160
ttattaataa gatctataga gagagatata tacacttttg attgttttct agatgtctac 2220
caataaatgc aatttgtgac ctgtattaat gatttaaaag gggaaactag attaaaaat 2280
a 2281

```

<210> 60

<211> 632

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 619292

<400> 60

```

cggacgcgtg ggttccagcc gcagctccag caccagggac ttctgctacg tcttcacggg 60
ggagctggaa cgaggccctt cggggtctgg gatgggcttg atcgacggga tgcacacgca 120
cctgggcgcc cccgggtctt acatccagac cctgctcccg ggcagccccg cagcggccga 180
cgggcgcctg tcgctggggg accgtatcct ggaggtgaat ggcagcagcc tcttgggctc 240

```

```

tggctacctg agagctgtgg acctgatccg tcatggcggg aagaagatgc ggttccctggt 300
cgcgaagtcc gacgttggga aacagccaag aagatccatt tccgcacgcc cccctctctag 360
gggggctgcg aggacacccc cacaggcccc gcacccgggc ccacctgggtg acactgggct 420
tcttccccgc ttcgtccctg ttttgtaact gaccaagtgt ggtccccggg ggggagcctc 480
accttgggga catgcctgtt gataacatgc atctcagtgt aggttctatt tatatggcag 540
atgacgtgaa attgtgatgt ttgttacaga gcttttatgt ttaaagactt caatggagaa 600
gtacggttca ataaactatt tttcccggtc tt 632

```

<310> 61

<311> 2347

<312> DNA

<313> Homo sapiens

<320>

<321> misc_feature

<323> Incyte Clone Number: 2054049

<400> 61

```

cccagtttta tcatggattc atcctgaaag tcaagccaca atcactcggt gtagccagcc 60
catggttggg gtgagtggaa agcgaagcaa agaagatgaa aaataccttc aagctatcat 120
ggattccaat gccagctctc acaaaatctt tatatttgat gcccggccaa gtgttaaatgc 180
tgttgccaac aaggcgaagg gtggagggtta tgaaagtga gatgcctatc aaaatgctga 240
actagttttc ctggatatcc acaatattca tgttatgaga gaatcattac gaaaacttaa 300
ggagattgtg taccccaaca ttgaggaaac ccactgggtg tctaacttgg aatclactca 360
ttggctagaa catattaagc ttattcttgc aggggctctt aggattgctg acaaggtaga 420
gtcagggaag acgtctgtgg tagtgcatgt cagtgatggt tgggatcgca cagctcagct 480
cacttccctt gccatgtcca tgttggatgg atactatcga accatccgag gatttgaagt 540
ccttgtggag aaagaatggc taagttttgg acatcgattt caactaagag ttggccatgg 600
agataaagaa catgcagatg cagacagatc gcctgtttct ctccaattta ttgactgtgt 660
ctggcagatg acaagacagt ttctaccgc atttgaattc aatgagtatt ttctcattac 720
cattttggac cacctataca gctgcttatt cggaacattc ctctgtaata gtgaacaaca 780
gagaggaaaa gagaatcttc ctaaaaggac tgtgtcactg tggctctaca taaacagcca 840
gctggaagac ttcactaatc ctctctatgg gagctattcc aatcatgtcc tttatccagt 900
agccagcatg cgccacctag agctctgggt gggatattac ataagggtga atccacggat 960
gaaaccacag gaacctattc acaacagata caaagaactt ctgtctaaac gagcagagct 1020
tcagaaaaaa gtgagggaaac tacagagaga gatttctaac cgatcaacct catcctcaga 1080
gagagccagc tctcctgcac agtgtgtcac tctgtccaa actgttgat aaaggactgt 1140
aagatcaggg gcatcattgc tatacactct tgattacact ggcagctcta tgagtagaaa 1200
gtcttcggaa tttagaaccc atctatgaga gaaagttcag tcactttatt tattttaaat 1260
ctctctagga tgagtttaga actgtagcag tgcaggtggc ttaagtgaag taactccata 1320
tgtaattaca tgattatgat actaatcttt taagtatcca aagaatatta aaatacttca 1380
atcctggatt cacagtggga acaagtttct attaaaaggc aaatgctgtt acaaatTTTT 1440
ggcatctggt aatattaaaa ccatttttaga aatacactct gtgctcactg tgcagaggaa 1500
catcagtttt caaaccaaca ctgaaattct gtggcatcac atatatggg ccttgatgtc 1560
atgacagatc aaaatcattt gatatccctt tctccattct aggtttttct ttttttcagt 1620
aactgattta ccttgatcac ttttcaactt ccatattctt catatagtaa aaggcgaagt 1680
gttgaagata ctacggtgtg gtagtagttg aaaattattg ccgtcattat ttacatactt 1740
aagacatatt agcaagtga tccaaaatgg gaggccttat agatgtgctt gggggaaaat 1800
gaaggggaga aagtagccat acaggagtgc aaagaattcc atgcccttca gattagccca 1860
attaccagaa acatcatgaa agatatTTTA aaaactaatt atttactaca gtgtatttca 1920
cttgtcttgt gtgtctgaac acacagaagc taattagcaa gtttttaaga agtattttaa 1980
aatcttacta ggattgacat tttttctgaa ttctgtataa atagcttata gtgagaagta 2040
ctgtgtctca attttacatt tttttcctt gcaaatcttg taatttcaact caacgattaa 2100
gtctaccaa gaacacactg catgtaaaag atgtattaca atctcaaagc cagtaaaaa 2160
aatcttgctt cactgttcac ctgctacaag taagagtttg gtgctggtag aaacatttga 2220

```

```

ctctgatgtc tattttatcc tacataagag ccatatgtaa tgtactgtaa caaaggagct 2280
tcttgtcccc ttggtctttt aattaaaaga aattccaact gactttttaa ctttaaaaaa 2340
aaaaaaaaa 2347

```

<210> 62

<211> 1737

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte Clone Number: 2842910

<400> 62

```

ccgggggctga gcgctcggct gcagcggcgc ggaggcgcgc tccctgggtct gccgcgggtcc 60
ccgcccgtcc cgcgcgcggc tgccatggca ggagcgggag gggtcggctg cccgcgcgggc 120
ggcaacgact tccagtgggtg cttctcgcag gtcaaggggg ccacgcacga ggacgtggcc 180
gaagcggaca tcatttccac cgttgagttt aattactctg gagatcttct tgcaacagga 240
gacaagggcg gcagagtgtg tatttttcag cgtgaacaag agaataaaag ccgccctcat 300
tctaggggag aatataatgt ttacagcacc tttcaagtc atgaaccgga gtttgactat 360
ttgaaaagtc tagaaaattga ggaaaaaatt aataaaatta ggtgggttacc acaacagaat 420
gctgctcatt ttctactgtc tacaaaatgat aaaaactataa aattatggaa aataagtgaa 480
cgggataaaa gagcagaagg ttataacctg aaagacgaag atggaagact tcgagaccca 540
tttaggatca cggcgctacg ggtcccaata ttgaagccca tggatcttat ggtagaagcg 600
agtccacggc gaatttttgc aatgctcac acataacata taaattccat ttcagtaaat 660
agtgatcatg aaacatatct tctcgcagat gacctgagaa ttaatttatg gcacttagaa 720
atcacagata gaagctttta catcgtggac atcaagcctg ctaacatgga ggagctgacc 780
gaagtcatca ctgcagccga gttccacccg caccagtga acgtgttcgt ctacagcagt 840
agcaaaggga ccatccgcct gtgtgacatg cgctcctcgg cctgtgcca cagacactcc 900
aagttttttg aagagcctga agatcccagc agtaggtcct tcttctcaga aataatttca 960
tccatatccg atgtaaaatt cagtcatagt gggcgggtaca tgatgaccag agaccacctg 1020
tcggtgaagg tgtgggacct caacatggag agcaggccgg tggagaccca ccagggtccac 1080
gagtacctgc gcagcaagct ctgctctctc tatgagaacg actgcatctt tgacaagttt 1140
gagtgttgct ggaacggttc ggatagcgcc atcatgaccg ggtcctataa caacttcttc 1200
aggatgtttg atagagacac gcggagggat gtgaccttg aggcctcgag agagagcagc 1260
aaaccgcgcg ccagcctcaa accccggaag gtgtgtacgg ggggtaagcg gaggaaagac 1320
gagatcagtg tggacagtct ggacttcaac aagaagatcc tgcacacagc ctggcacccc 1380
gtggacaatg tcattgccgt ggctgccacc aataacttgt acatattcca ggacaaaatc 1440
aactagagac gcgaacgtga ggaccaagtc ttgtcttgca tagttaagcc ggacattttt 1500
ctgtcagaga aaaggcatca ttgtccgctc catthaagaac agtgacgcac ctgctacttc 1560
ccttcacaga cacaggagaa agccgcctcc gctggaggcc cgggtgtggt ccgcctcggc 1620
gaggcgcgag acaggcgcgt ctgctcacgt ggagacgctc tcgaagcaga gttgacggac 1680
actgctccca aaaggtcatt actcagaata aatgtattta tttcaaaaaa aaaaaaa 1737

```